EIGHT A.M.

WEATHER REPORT. 1870.

Thurs-day — December 1st

STATIONS.	Barometer.	Thermometer. Dry.	Thermometer. Wet.	Present Wind. Direction.	Present Wind. Force. (0 to 12.)	Extreme Wind. Force. (0 to 12.)	Extreme Wind. Direction.	Amount of Cloud. (0 to 9.)	Weather.	Rain. (Inches.)	Sea Disturb (0 to 9.)
*Christiansund	30·63	38	35	SSW	4	4	SE	—	o	—	4
*Skudesnaes ...	30·63	35	33	SSE	4	2	SSE	—	bo	—	3
*Oxo (Christiansand)	30·74	25	—	N	4	6	NNE	—	cb	—	2
Thurso ...	30·59r	31	—	S	1	1	SSE	2	ob	—	1
Wick	30·62r	?40	?38	SSE	4	4	SSE	4	c	—	3
Nairn	30·62r	24	—	W	1	1	SW	0	b	—	1
Aberdeen ...	30·65r	26	—	Z	0	1	SSE	4	m	0·08	0
Leith	30·66r	39	35	S	2	2	SSE	7	c	—	—
Shields	30·65r	39	34	?E	2	3	SE	8	cpo	0·02	2
Scarborough...	30·63r	41	39	SE	5	4	E	9	o	—	4
Yarmouth ...	30·61r	40	39	NE	4	5	E	4	c	0·11	5
Ardrossan ...	30·65r	39	36	ESE	3	4	ESE	6	cm	—	2
Greencastle ...	30·54r	41	38	SSE	3	4	SE	4	oc	—	—
Holyhead ...	30·57r	34	33	ESE	3	4	ESE	4	c	—	—
Liverpool ...	30·60r	43	40	E	1	2	E	4	cf	—	1
Valencia ...	30·36r	46	44	S	5	5	S	6	c	—	4
Roche's Point	30·42r	45	42	S	5	5	SE	9	o	—	4
Pembroke ...	30·47r	40	37	ESE	6	6	ESE	4	lc	—	4
Penzance ...	30·46r	44	41	SSE	7	6	ESE	8	o	—	6
Plymouth ...	30·45r	40	39	E	3	4	E	3	oc	—	1
Portsmouth ...	30·53r	34	32	ENE	1	4	E	6	oc	—	1
Dover ...	30·54r	40	38	ESE	4	6	ENE	4	c	—	8
London ...	30·56r	37	34	ENE	1	4	ENE	9	com	—	—
Helder	30·60	32	—	ENE	4	—	—	—	—	—	2
Cape Gris Nez	30·53r	32	—	ENE	4	7	ESE	9	o	—	3
Brest	?30·38r	34	32	E	4	5	E	3	b	—	4
L'Orient ...											
Rochefort ...											
Biarritz... ...											
Corunna ...			—			—	—	—		—	
Brussels ...			—			—	—	—		—	—
Paris			—			—	—	—		—	—
Strasbourg ...			—			—	—	—		—	—
Lyons			—			—	—	—		—	—
Toulon											
Heart'sContent (9 a.m. local time.)											

2 P.M. REPORT.

Skudesnaes ...						—	—	—		—	
Thurso	30·60	35	34	SSW	1	—	—	0	bm	—	1
Scarborough ...	30·66	40	36	SE	4	—	—	7	oc	—	4
Greencastle ...	30·58	43	39	S	5	—	—	7	oc	—	—
Valencia ..	30·34	47	44	SSE	6	—	—	6	c	—	5
Penzance ...	30·47	43	39	SE	7	—	—	4	c	—	6
London... ...	30·59	41	38	ESE	3	—	—	9	plo	—	—
Rochefort ...						—	—			—	

EXPLANATION OF THE COLUMNS.

BAROMETER: corrected and reduced to 32° F. at sea level. The letters r. (rising), f. (falling), s. (steady), indicate direction of motion of the mercury within last 14 hours. **THERMOMETER**: dry and wet, exposed in shade. **WIND**: **EXTREME FORCE** with its Direction, during last 24 hours. Z.—calm. **WEATHER**: b.—blue sky; c.—clouds (detached); f.—fog; h.—hail; l. lightning; m.—misty (hazy); o.—overcast (dull); p.—passing showers; q.—squally; r.—rain; s.—snow; t.—thunder. **RAIN-FALL**: (snow or hail melted), during last 24 hours. **SEA DISTURBANCE**: 0=dead calm; 9=extremely high sea.

N.B.—The wind is said to "veer" when its direction changes *with the sun*, and to "back" when it shifts in the opposite direction.

* The Norwegian stations do not report rainfall, and their "extreme" wind is an observation taken at 8 p.m.

REMARKS.

Thurs-day

The barometer has again risen with great uniformity on all coasts, and the reading at Leith (30·66 ins.) is only 0·30 in. higher than that at Valencia.

Temperature has fallen generally and is low in Scotland. At Nairn the temperature is 24°, or 22° colder than at Valencia.

Moderate E by N and SE by N breezes are still prevalent in England, but blow very freshly at Penzance, and draw gradually round to S in Ireland and Scotland.

Some showers have fallen on the east coast. The sky has cleared considerably in many places, and fog is much less prevalent than of late. The sea is very rough at Penzance, moderate to calm elsewhere.

---

2 pm. — Pressure has begun decreasing a little at Valencia, with a slight increase of wind.

CORRECTIONS AND ADDITIONS TO PREVIOUS REPORTS.

Reports received too late for insertion in their proper places.

Date.	Station.	Bar.	Temp.		Wind.		Extreme.		Cloud.	Weather.	Rain.	Sea.
Nov.R 30TH	Hearts Content	29·86 r	22	–	NNE	1	5	NE	9	0	–	3

Meteorological Office,

ROBERT H. SCOTT,

DIRECTOR.

PRINTED BY VINCENT BROOKS, DAY AND SON, GATE STREET, W.C.

EIGHT A.M.

WEATHER REPORT. 1870.

Fri-day — December 2nd

STATIONS.	Barometer.	Thermometer. Dry.	Thermometer. Wet.	Present Wind. Direction.	Present Wind. Force. (0 to 12.)	Extreme Wind. Force. (0 to 12.)	Extreme Wind. Direction.	Amount of Cloud. (0 to 9.)	Weather.	Rain. (Inches.)	Sea Disturb. (0 to 9.)
*Christiansund	30·50	38	36	SW	6	6	SSW	—	o	—	4
*Skudesnaes ...	30·52	34	34	NW	4	6	S	—	b	—	1
*Oxo (Christiansand)	30·38	31	—	NNW	2	2	NNW	—	oc	—	1
Thurso ...	30·61s	35	34	Z	0	1	S	8	cmo	—	0
Wick	30·61r	35	34	SSW	2	3	SSE	8	co	—	2
Nairn	30·62r	31	—	W	1	1	W	6	bcm	—	1
Aberdeen ...	30·65f	35	33	WSW	1	1	SSW	8	co	—	1
Leith	30·69f	36	33	WSW	2	2	S	8	cof	—	—
Shields	30·66f	37	35	WNW	3	5	SE	8	co	0·01	2
Scarborough...	30·66f	37	34	WSW	1	5	SE	9	co	—	2
Yarmouth ...	30·62f	39	36	NE	3	5	E	4	c	—	4
Ardrossan ...	30·67f	35	32	E	2	3	ESE	6	cf	—	2
Greencastle ...	30·61f	40	37	SSE	2	5	S	9	co	—	—
Holyhead ...	30·62r	32	—	ESE	2	2	ESE	5	bc	—	—
Liverpool ...	30·66r	41	37	E	1	1	E	7	cf	—	1
Valencia ...	30·47r	44	42	SE	5	6	SSE	6	c	—	4
Roche's Point	30·50r	43	40	SE	5	6	SE	9	o	—	4
Pembroke ...	30·57r	38	35	ESE	5	6	ESE	8	co	—	3
Penzance ...	30·56r	42	38	SE	7	7	SE	8	co	—	6
Plymouth ...	30·56r	38	35	E	2	3	E	9	o	—	0
Portsmouth ...	30·57r	31	—	NE	2	3	ENE	4	cm	—	1
Dover ...	30·60f	35	31	E	3	5	E	3	cb	—	3
London ...	30·63r	33	31	E	2	3	E	9	pom	—	—
Helder	30·60	35	—	S	2	—	—	—	—	—	2
Cape Gris Nez	30·59r	44	44	E	4	5	N	3	oc	—	3
Brest	30·53r	35	33	ENE	5	5	ESE	0	b	—	4
L'Orient ...											
Rochefort ...	30·39r	45	45	E	5	5	E	0	b	—	2
Biarritz... ...											
Corunna ...			—			—	—	—		—	
Brussels ...			—			—	—	—		—	—
Paris			—			—	—	—		—	—
Strasbourg ...			—			—	—	—		—	—
Lyons			—			—	—	—		—	—
Toulon											
Heart'sContent (9 a.m. local time.)											

2 P.M. REPORT.

Skudesnaes ...						—	—	—		—	
Thurso	30·59	36	35	S	1	—	—	8	o	—	1
Scarborough ...	30·60	38	35	W	1	—	—	9	o	—	2
Greencastle ...	30·62	40	37	S	3	—	—	9	o	—	—
Valencia ..	30·45	46	43	SSE	5	—	—	7	c	—	4
Penzance ...	30·55	41	38	SE	6	—	—	9	o	—	6
London... ...	30·59	37	34	NW	2	—	—	8	goc	—	—
Rochefort ...						—	—			—	

EXPLANATION OF THE COLUMNS.

BAROMETER: corrected and reduced to 32° F. at sea level. The letters r. (rising), f. (falling), s. (steady), indicate direction of motion of the mercury within last 14 hours. **THERMOMETER**: dry and wet, exposed in shade. **WIND**: **EXTREME FORCE** with its Direction, during last 24 hours. Z.—calm. **WEATHER**: b.—blue sky; c.—clouds (detached); f.—fog; h.—hail; l. lightning; m.—misty (hazy); o.—overcast (dull); p.—passing showers; q.—squally; r.—rain; s.—snow; t.—thunder. **RAIN-FALL**: (snow or hail melted), during last 24 hours. **SEA DISTURBANCE**: 0=dead calm; 9=extremely high sea.

N.B.—The wind is said to "veer" when its direction changes *with the sun*, and to "back" when it shifts in the opposite direction.

* The Norwegian stations do not report rainfall, and their "extreme" wind is an observation taken at 8 p.m.

REMARKS.

Fri-day

The barometer is slightly higher on nearly all coasts than it was yesterday morning, especially in the south-west; but during the night a tendency to decrease has been observable at all the northern and north-eastern stations. Pressure is high and uniform the reading at Leith (30·69 ins:) being only 0·22 in: greater than at Valencia.

Temperature has risen several degrees over the greater part of Scotland, but again fallen slightly in England and Ireland. It is still highest in the south-west.

Light E ½ winds prevail in the English Channel, changing to fresh SE at our southwest stations while a light NW ½ current exists in Scotland, and the northeast of England, and light NNW ½ in the south of Norway.

The sky has become overcast generally, and fog and mist are prevalent in several places. The sea continues disturbed in the southwest, but is calm elsewhere.

---

2 pm.

The barometer has fallen slightly except at Greencastle. No other change.

CORRECTIONS AND ADDITIONS TO PREVIOUS REPORTS.

Reports received too late for insertion in their proper places.

Date.	Station.	Bar.	Temp.		Wind.		Extreme.		Cloud.	Weather.	Rain.	Sea.

Meteorological Office,

ROBERT H. SCOTT,

DIRECTOR.

PRINTED BY VINCENT BROOKS, DAY AND SON, GATE STREET, W.C.

EIGHT A.M.

WEATHER REPORT. 1870.

Saturday — December. 3rd

STATIONS.	Barometer.	Thermometer. Dry.	Thermometer. Wet.	Present Wind. Direction.	Present Wind. Force. (0 to 12.)	Extreme Wind. Force. (0 to 12.)	Extreme Wind. Direction.	Amount of Cloud. (0 to 9.)	Weather.	Rain. (Inches.)	Sea Distu (0 to
*Christiansund	30·35	42	41	SW	6	4	SSW	—	o r	—	4
*Skudesnaes ...	30·30	30	–	ENE	2	0	Z	—	b	—	2
*Oxo (Christiansand)	30·26	35	32	NNW	4	4	NNW	—	c b	—	2
Thurso ...	30·58 f	46	43	NW	2	2	WSW	8	o	—	2
Wick	30·51 f	43	42	WNW	2	3	WSW	4	c	—	2
Nairn	30·56 f	36	35	W	1	1	W	9	o	—	1
Aberdeen ...	30·51 f	40	38	NNW	2	3	NW	9	c o	—	2
Leith	30·52 f	40	37	W	3	2	W	9	o f	—	—
Shields	30·42 f	44	41	NE	4	3	WNW	6	m p c	0·02	2
Scarborough...	30·37 f	43	41	N	4	1	W	9	o	—	4
Yarmouth ...	30·26 f	42	42	NNE	4	4	NNE	6	c	—	6
Ardrossan ...	30·55 f	34	35	SE	1	2	ESE	0	m f	—	1
Greencastle ...	30·57 f	38	35	N	1	3	S	9	o	—	—
Holyhead ...	30·49 f	42	39	NNE	3	4	ESE	6	c	—	—
Liverpool ..	30·44 f	41	37	E	1	2	NE	6	m	—	1
Valencia ...	30·51 f	42	40	SSE	3	5	SSE	8	c o	—	1
Roche's Point	30·49 f	40	37	E	4	5	SSE	9	o	—	4
Pembroke ...	30·46 f	39	37	NNW	2	5	SE	9	o	—	0
Penzance ...	30·49 f	37	34	ENE	3	6	SE	9	o	—	3
Plymouth ...	30·36 f	34	32	NNE	1	2	E	9	o f	—	0
Portsmouth ...	30·35 f	31	—	NW	2	2	ENE	9	c o	—	1
Dover ...	30·28 f	34	33	WNW	4	3	WNW	5	b c s	—	3
London ...	30·33 f	35	33	NNW	2	3	NNE	9	c b o	—	—
Helder	30·16 f	41	—	NE	5	—	—	—	—	—	2
Cape Gris Nez	30·26 f	37	35	N	7	4	E	9	c o	—	5
Brest	30·50 f	28	–	ENE	3	5	ENE	1	b	—	4
L'Orient ...											
Rochefort ...											
Biarritz... ...											
Corunna ...			—			—	—	—		—	—
Brussels ...			—			—	—	—		—	—
Paris			—			—	—	—		—	—
Strasbourg ...			—			—	—	—		—	—
Lyons			—			—	—	—		—	—
Toulon											
Heart'sContent (9 a.m. local time.)											

2 P.M. REPORT.

Skudesnaes ...						—	—	—		—	
Thurso	30·50	46	43	N	3	—	—	8	o	—	2
Scarborough ...	30·31	45	43	N	5	—	—	9	r o	—	5
Greencastle ...	30·55	41	39	S	1	—	—	9	o	—	1
Valencia ..	30·50	43	41	E	3	—	—	8	c o	—	1
Penzance ...	30·39	43	40	ENE	4	—	—	6	o c	—	3
London... ...	30·22	41	40	NNW	2	—	—	9	o	—	—
Rochefort ...						—	—			—	

EXPLANATION OF THE COLUMNS.

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N.B.—The wind is said to "veer" when its direction changes *with the sun*, and to "back" when it shifts in the opposite direction.

* The Norwegian stations do not report rainfall, and their "extreme" wind is an observation taken at 8 p.m.

REMARKS.

Satur-day

The barometer has now fallen briskly at our eastern stations and Helder, and to a less extent on our other coasts. except at Valencia. The change at Helder is 0·44 in: since yesterday morning, and the reading there is 0·42 in: less that that at Thurso.

Temperature is very unsteady and irregular It has risen several degrees in the north and east of Great Britain, but fallen in Ireland and on our south coasts. The highest temperature reported is from Thurso (46°).

Light and variable NW by W breezes are prevalent at the Scotch stations, changing to a moderate NE by N wind over England, while light variable airs are reported from Ireland.

The sky is overcast generally, and dense fog prevails at Ardrossan. Snow is falling at Dover. The sea has risen at Yarmouth, but is nearly calm generally.

---

2 P.M. The barometer is still falling, chiefly on our eastern coasts; where the wind is inclined to freshen from the N^ward.

CORRECTIONS AND ADDITIONS TO PREVIOUS REPORTS.

Reports received too late for insertion in their proper places.

Date.	Station.	Bar.	Temp.		Wind.		Extreme.		Cloud.	Weather.	Rain.	Sea
Dec: 2nd	Rochefort	30·39 in	45	45	E	5	5	E	0	b	–	3

Meteorological Office,

ROBERT H. SCOTT,

DIRECTOR.

PRINTED BY VINCENT BROOKS, DAY AND SON, GATE STREET, W.C.

EIGHT A.M.

WEATHER REPORT. 1870.

Sunday

December 4th

STATIONS.	Barometer.	Thermometer. Dry.	Thermometer. Wet.	Present Wind. Direction.	Present Wind. Force. (0 to 12.)	Extreme Wind. Force. (0 to 12.)	Extreme Wind. Direction.	Amount of Cloud. (0 to 9.)	Weather.	Rain. (Inches.)	Sea Disturb (0 to 9.)
*Christiansund								—		—	
*Skudesnaes ...								—		—	
*Oxo (Christiansand)								—		—	
Thurso ...	30·18f	45	44	NNE	3	3	N	8	o	—	2
Wick	30·44f	45	44	NNW	2	2	WNW	7	c	—	2
Nairn	30·48f	39	38	NE	1	1	W	9	o	0·08	2
Aberdeen 9 a.m.	30·42f	43	42	N	2	3	N	9	ro	0·20	4
Leith ... 9 a.m.	30·44f	42	41	NW	2	2	N	7	of	0·04	—
Shields	30·28f	44	44	NE	3	4	NE	4	o pc	0·04	4
Scarborough 9·20 a.m.	30·32r	42	41	SSE	2	5	N	9	or	0·23	3
Yarmouth ...	30·32r	37	34	ENE	5	6	NNE	4	c	—	5
Ardrossan ...	30·46f	38	36	N	2	2	SE	5	mc	—	1
Greencastle 10 a.m.	30·47f	45	42	NE	1	3	NE	9	o	—	—
Holyhead ...	30·35f	46	44	NNE	5	7	NNE	6	c	—	—
Liverpool ..	30·34f	45	43	N	2	3	NNW	8	mo	—	2
Valencia ...	30·50f	42	40	ENE	4	3	E	8	bo	—	2
Roche's Point	30·49r	40	37	NNE	4	4	NNE	9	o	—	3
Pembroke ...	30·29f	45	43	NNE	5	4	NNE	9	o	—	1
Penzance 9 a.m.	30·29f	47	44	NE	6	4	ENE	7	c	—	3
Plymouth ...	30·22f	43	42	NNE	1	1	NNE	9	of	—	0
Portsmouth ...	30·22f	35	33	NNE	4	5	N	8	o	0·05	3
Dover ...	30·26r	32	—	E	6	4	NE	2	q pb	0·25	5
London ...	30·30r	33	31	E	3	5	E	2	rsb	0·14	—
Helder			—			—	—	—	—	—	
Cape Gris Nez	30·19r	26	—	ESE	5	8	N	4	rb	—	4
Brest	30·23f	45	41	N	4	3	ESE	9	o	—	3
L'Orient ...											
Rochefort ...	30·00f	42	42	N	5	4	NE	9	o	—	3
Biarritz... ...											
Corunna ...			—			—	—	—		—	
Brussels ...			—			—	—	—		—	—
Paris			—			—	—	—		—	—
Strasbourg ...			—			—	—	—		—	—
Lyons			—			—	—	—		—	—
Toulon											
Heart'sContent (9 a.m. local time.)											

2 P.M. REPORT.

Skudesnaes ...						—	—	—		—	
Thurso						—	—			—	
Scarborough ...						—	—			—	
Greencastle ...						—	—			—	—
Valencia ..						—	—			—	
Penzance ...						—	—			—	
London... ...						—	—			—	—
Rochefort ...						—	—			—	

EXPLANATION OF THE COLUMNS.

BAROMETER: corrected and reduced to 32° F. at sea level. The letters r. (rising), f. (falling), s. (steady), indicate direction of motion of the mercury within last 14 hours. **THERMOMETER**: dry and wet, exposed in shade. **WIND**: **EXTREME FORCE** with its Direction, during last 24 hours. Z.—calm. **WEATHER**: b.—blue sky; c.—clouds (detached); f.—fog; h.—hail; l. lightning; m.—misty (hazy); o.—overcast (dull); p.—passing showers; q.—squally; r.—rain; s.—snow; t.—thunder. **RAIN-FALL**: (snow or hail melted), during last 24 hours. **SEA DISTURBANCE**: 0=dead calm; 9=extremely high sea.

N.B.—The wind is said to "veer" when its direction changes *with the sun*, and to "back" when it shifts in the opposite direction.

* The Norwegian stations do not report rainfall, and their "extreme" wind is an observation taken at 8 p.m.

REMARKS.

day

CORRECTIONS AND ADDITIONS TO PREVIOUS REPORTS.

Reports received too late for insertion in their proper places.

Date.	Station.	Bar.	Temp.		Wind.		Extreme.		Cloud.	Weather.	Rain.	Sea

Meteorological Office,

ROBERT H. SCOTT,

DIRECTOR.

PRINTED BY VINCENT BROOKS, DAY AND SON, GATE STREET, W.C.

EIGHT A.M.

WEATHER REPORT. 1870.

Mon-day — December. 5th

STATIONS.	Barometer.	Thermometer. Dry.	Thermometer. Wet.	Present Wind. Direction.	Present Wind. Force. (0 to 12.)	Extreme Wind. Force. (0 to 12.)	Extreme Wind. Direction.	Amount of Cloud. (0 to 9.)	Weather.	Rain. (Inches.)	Sea Disturb (0 to 9.)
*Christiansund								—		—	
*Skudesnaes ...								—		—	
*Oxo (Christiansand)								—		—	
Thurso ...	30·40 f	38	37	WNW	2	3	NNE	6	cp	0·03	2
Wick	30·40 f	39	38	W	2	2	NNW	8	o	0·03	2
Nairn	30·43 f	36	36	Z	0	1	NE	9	o f	0·08	2
Aberdeen ...	30·42 f	39	38	NNW	1	2	N	3	c	0·02	2
Leith	30·41 f	42	40	W	2	2	NW	6	c f	—	—
Shields	30·35 f	44	44	NNE	4	3	NNE	8	o	0·14	3
Scarborough...	30·31 f	44	43	NNE	3	3	N	9	o	0·02	3
Yarmouth ...	30·34 f	34	34	SW	3	5	NNE	6	c f	—	4
Ardrossan ...	30·45 f	43	40	N	1	1	N	5	c m	—	0
Greencastle ...	30·47 f	42	40	WNW	1	2	NE	8	o	—	—
Holyhead ...	30·42 s	46	43	NNE	3	3	NNE	5	c	—	—
Liverpool ..	30·38 -	45	43	NE	1	2	SE	9	m f r	0·01	1
Valencia ...	30·50 r	43	41	ENE	3	4	E	8	c o	—	1
Roche's Point	30·48 s	44	42	NNW	2	4	NNE	9	o	—	2
Pembroke ...	30·40 f	44	42	WNW	3	4	NE	9	c o	—	1
Penzance ...	30·44 r	34	32	NE	1	4	ENE	0	c b	—	1
Plymouth ...	30·44 f	28	-	W	1	2	ENE	9	c f	—	0
Portsmouth ...	30·39 f	31	—	NW	2	6	ENE	7	c o	—	1
Dover ...	30·36 f	32	—	WNW	3	4	E	2	b	—	2
London ...	30·34 f	30	—	Z	0	3	E	9	c s o	0·01	—
Helder	30·29	42	—	NW	2	—	—	—	—	—	2
Cape Gris Nez	30·36 f	35	33	Z	0	5	ESE	8	b o	—	1
Brest	?30·43 r	29	-	ENE	1	4	ENE	1	b	-	2
L'Orient ...											
Rochefort ...	30·23 r	?40	?40	N	5	5	N	0	s m	0·20	3
Biarritz... ...											
Corunna ...			—			—	—	—		—	
Brussels ...			—			—	—	—		—	—
Paris			—			—	—	—		—	—
Strasbourg ...			—			—	—	—		—	—
Lyons			—			—	—	—		—	—
Toulon... ...											
Heart'sContent (9 a.m. local time.)											

2 P.M. REPORT.

Skudesnaes ...						—	—	—		—	
Thurso	30·22	41	40	WSW	1	—	—	8	c o	—	1
Scarborough ...	30·25	44	43	NE	2	—	—	9	o	—	3
Greencastle ...	30·38	44	43	NNW	1	—	—	9	m r	—	—
Valencia ..	30·43	46	43	NNE	3	—	—	?5	r o	—	1
Penzance ...	30·31	34	33	NNW	2	—	—	9	c r	—	1
London... ...	30·27	35	34	SW	1	—	—	9	m o	—	—
Rochefort ...						—	—			—	

EXPLANATION OF THE COLUMNS.

BAROMETER: corrected and reduced to 32° F. at sea level. The letters r. (rising), f. (falling), s. (steady), indicate direction of motion of the mercury within last 14 hours. **THERMOMETER**: dry and wet, exposed in shade. **WIND**: **EXTREME FORCE** with its Direction, during last 24 hours. Z.—calm. **WEATHER**: b.—blue sky; c.—clouds (detached); f.—fog; h.—hail; l. lightning; m.—misty (hazy); o.—overcast (dull); p.—passing showers; q.—squally; r.—rain; s.—snow; t.—thunder. **RAIN-FALL**: (snow or hail melted), during last 24 hours. **SEA DISTURBANCE**: 0=dead calm; 9=extremely high sea.

N.B.—The wind is said to "veer" when its direction changes *with the sun*, and to "back" when it shifts in the opposite direction.

* The Norwegian stations do not report rainfall, and their "extreme" wind is an observation taken at 8 p.m.

REMARKS.

Mon-day

Yesterday the barometer had fallen at all but the western stations, and was lowest in the south. To-day a considerable rise is noticed in the southern districts, but a fresh fall has set in during the night, principally on our northeast coasts. The reading at Valencia now exceeds that at Helder by only 0·21 in.

Temperature has changed considerably since Saturday, and during the past day has decreased quickly in Scotland, and also in the English Channel, while elsewhere there has been a slight rise. Holyhead is 10° warmer than Nairn, and 18° warmer than Plymouth.

Winds are very irregular. They have been generally light from NE since Saturday, but light Wly breezes have now made their appearance both in Scotland, and the south of England.

The amount of cloud is very variable over the British Isles, and thick fog is prevalent in several places. The sea is moderate or calm.

---

2 P.M. The barometer continues to fall generally and very irregularly. The winds are little changed.

CORRECTIONS AND ADDITIONS TO PREVIOUS REPORTS.

Reports received too late for insertion in their proper places.

Date.	Station.	Bar.	Temp.		Wind.		Extreme.		Cloud.	Weather.	Rain.	Sea.
Dec. 3.	Cape Grio-nez	30·26 g	37	35	N	7	4	E	9	co	—	s

Meteorological Office,

ROBERT H. SCOTT,

DIRECTOR.

PRINTED BY VINCENT BROOKS, DAY AND SON, GATE STREET, W.C.

EIGHT A.M.

WEATHER REPORT. 1870. December 6th

Tuesday

STATIONS.	Barometer.	Thermometer. Dry.	Thermometer. Wet.	Present Wind. Direction.	Present Wind. Force. (0 to 12.)	Extreme Wind. Force. (0 to 12.)	Extreme Wind. Direction.	Amount of Cloud. (0 to 9.)	Weather.	Rain. (Inches.)	Sea Dist. (0 to 9.)
*Christiansund	29·77	37	35	WSW	4	8	SW	—	bc	—	4
*Skudesnaes ...	29·82	36	35	NNW	2	0	Z	—	o	—	2
*Oxo (Christiansand)	29·73	36	35	WSW	6	4	W	—	c	—	2
Thurso ...	30·10r	41	37	NNE	5	4	NW	7	c	0·10	4
Wick	30·11r	38	37	N	5	3	WNW	8	o	0·12	3
Nairn	30·12f	39	38	NE	4	1	NE	9	o	0·07	4
Aberdeen ...	29·99f	41	40	N	3	3	N	9	br	0·13	3
Leith	30·01f	37	35	WNW	2	3	W	6	cf	0·02	—
Shields	29·89f	41	40	N	3	4	NNE	7	oc	0·30	4
Scarborough...	29·87f	40	39	N	2	2	NE	9	or	0·13	3
Yarmouth ...	29·88f	35	35	Z	0	4	WNW	6	f	—	3
Ardrossan ...	30·06f	39	37	N	2	4	WNW	3	cm	0·01	1
Greencastle ...	30·09f	44	44	N	6	6	N	7	mqp	0·19	—
Holyhead ...	29·93f	42	41	NNW	2	3	NNE	8	cr	0·18	—
Liverpool ...	29·89f	43	40	NE	2	3	NW	6	rc	0·07	1
Valencia ...	30·21f	46	44	NNE	3	2	NNE	7	pc	0·01	2
Roche's Point	30·10f	43	40	NNW	5	5	NNW	7	oc	0·01	4
Pembroke ...	29·95f	44	42	NNW	6	3	N	9	oq	0·04	2
Penzance ...	30·01f	44	42	N	3	3	NW	9	r	0·31	2
Plymouth ...	29·98f	39	39	W	1	1	W	9	f	—	0
Portsmouth ...	29·92f	36	35	Z	0	2	NW	9	ofr	0·09	0
Dover ...	29·93f	40	39	SW	4	0	Z	7	bc	—	3
London ...	29·90f	36	36	SW	1	2	SW	9	ocr	0·16	—
Helder	29·91	41	—	W	2	—	—	—	—	—	2
Cape Gris Nez	29·95f	38	36	WSW	5	1	SW	9	o	—	4
Brest											
L'Orient ...											
Rochefort ...											
Biarritz... ...											
Corunna ...			—			—	—	—		—	
Brussels ...			—			—	—	—		—	—
Paris			—			—	—	—		—	—
Strasbourg ...			—			—	—	—		—	—
Lyons			—			—	—	—		—	—
Toulon											
Heart'sContent (9 a.m. local time.)											

2 P.M. REPORT.

Skudesnaes ...	29·70	36	35	NNE	6	—	—	—	or	—	2
Thurso	30·14	41	38	NNE	6	—	—	5	cp	—	4
Scarborough ...	29·87	44	42	NE	4	—	—	9	ro	—	4
Greencastle ...	30·14	44	41	N	5	—	—	8	o	—	4
Valencia ..	30·17	48	45	NNE	5	—	—	7	p	—	4
Penzance ...	29·88	44	41	NE	6	—	—	6	c	—	—
London... ...	29·82	37	37	WSW	1	—	—	9	fr	—	—
Rochefort ...						—	—			—	

EXPLANATION OF THE COLUMNS.

BAROMETER: corrected and reduced to 32° F. at sea level. The letters r. (rising), f. (falling), s. (steady), indicate direction of motion of the mercury within last 14 hours. **THERMOMETER**: dry and wet, exposed in shade. **WIND**: **EXTREME FORCE** with its Direction, during last 24 hours. Z.—calm. **WEATHER**: b.—blue sky; c.—clouds (detached); f.—fog; h.—hail; l. lightning; m.—misty (hazy); o.—overcast (dull); p.—passing showers; q.—squally; r.—rain; s.—snow; t.—thunder. **RAIN-FALL**: (snow or hail melted), during last 24 hours. **SEA DISTURBANCE**: 0=dead calm; 9=extremely high sea.

N.B.—The wind is said to "veer" when its direction changes *with the sun*, and to "back" when it shifts in the opposite direction.

* The Norwegian stations do not report rainfall, and their "extreme" wind is an observation taken at 8 p.m.

REMARKS.

Tues-day

The barometer has continued to fall except in the north of Scotland where a rise has taken place during the night. Readings are now lowest on the east coast of England, Yarmouth being 0·33 in. less than Valencia.

Temperature has risen considerably in the English Channel – 11° at Plymouth, – but has fallen somewhat at our central stations. Valencia is 11° warmer than Yarmouth.

The winds are now principally N^ly, but W^ly and SW^ly breezes are reported from the Channel stations. They are light to moderate in force.

The sky is very cloudy and rain has fallen at almost all stations. Snow fell in London yesterday. A little fog is prevalent in the English Channel. The sea is moderate or calm.

---

20 M. Pressure continues to decrease except in the N of the British Isles. Winds have freshened a little and veered towards NE.

CORRECTIONS AND ADDITIONS TO PREVIOUS REPORTS.

Reports received too late for insertion in their proper places.

Date.	Station.	Bar.	Temp.		Wind.		Extreme.		Cloud.	Weather.	Rain.	Sea.
Dec^r												
4th	Christiansund	30·32	44	44	SSW	4	4	SW	—	r	—	?
—"—	Skudenaes	30·28	37	36	ENE	2	4	NNW	—	b	—	3
—"—	Oxö	30·23	37	35	WSW	2	2	NNW	—	o	—	1
5th	Christiansund	30·16	45	40	SW	4	4	WSW	—	o	—	4
—"—	Skudenaes	30·25	36	35	Z	0	2	?NNE	—	bc	—	1
—"—	Oxö	30·20	36	35	NNW	4	4	NW	—	bc	—	2
—"—	Brest	30·435	29	—	ENE	1	4	ENE	1	b	—	2
—"—	Rochefort	30·235	—	—	N	5	5	N	0	sm	0·20	3

Meteorological Office,

ROBERT H. SCOTT,

DIRECTOR.

PRINTED BY VINCENT BROOKS, DAY AND SON, GATE STREET, W.C.

EIGHT A.M.

WEATHER REPORT. 1870. December 7th

Wednesday

STATIONS.	Barometer.	Thermometer. Dry.	Thermometer. Wet.	Present Wind. Direction.	Present Wind. Force. (0 to 12.)	Extreme Wind. Force. (0 to 12.)	Extreme Wind. Direction.	Amount of Cloud. (0 to 9.)	Weather.	Rain. (Inches)	Sea Distur (0 to 9
*Christiansund	29·97	24	—	NNE	8	10	NNE	—	c	—	5
*Skudesnaes ...	29·54	32	—	NNE	6	6	N	—	bos	—	3
Oxo (Christiansand)	29·52	29	—	NNE	10	2	NNE	—	cos	—	5
Thurso ...	29·98f	36	34	NNE	6	6	NNE	5	qph	0·08	4
Wick	29·97f	35	33	NNE	6	4	N	8	s	0·10	5
Nairn	30·00f	35	33	NE	6	2	NE	8	ohp	0·03	6
Aberdeen ...	29·86f	33	32	NNW	2	5	N	2	c	0·12	3
Leith	29·94f	34	32	NNW	5	4	NNE	4	c	—	—
Shields	29·82f	34	34	N	4	7	NNE	8	rs	0·50	5
Scarborough...	29·77f	36	35	N	4	7	NE	9	o	0·29	4
Yarmouth ...	29·67f	37	37	N	4	4	S	4	rfa	0·41	6
Ardrossan ...	30·00f	34	32	N	3	4	NE	1	cb	—	2
Greencastle ...	30·06f	37	34	N	5	6	NNE	4	c	0·05	—
Holyhead ...	29·93f	40	35	NNE	4	7	NNE	5	c	—	—
Liverpool ...	29·89f	39	34	NNE	2	1	NNE	3	cm	0·05	1
Valencia ...	30·15f	43	41	N	4	6	NNE	8	ro	0·01	3
Roche's Point	30·06f	37	35	NNW	4	6	N	6	c	—	3
Pembroke ...	29·90f	39	35	NE	4	7	NNE	7	oqc	0·06	1
Penzance ...	29·90f	41	37	ENE	6	6	NE	6	c	0·14	4
Plymouth ...	29·85f	38	35	N	3	1	N	6	oc	0·01	0
Portsmouth ...	29·77f	36	34	NNE	4	1	NNE	6	rfc	0·23	3
Dover ...	29·66f	37	37	NNE	3	3	SW	8	os	0·13	2
London ...	29·74f	35	34	N	2	2	WSW	9	ro	0·25	—
Helder	29·58	41	—	NNE	6	—	—	—	—	—	2
Cape Gris Nez	29·69f	37	37	N	3	5	WSW	9	or	—	2
Brest											
L'Orient ...											
Rochefort ...	29·87s	21	—	N	4	5	N	0	b	—	1
Biarritz... ...											
Corunna ...			—			—	—	—		—	
Brussels ...			—			—	—	—		—	—
Paris			—			—	—	—		—	—
Strasbourg ...			—			—	—	—		—	—
Lyons			—			—	—	—		—	—
Toulon											
Heart'sContent (9 a.m. local time.)											

2 P.M. REPORT.

Skudesnaes ...						—	—	—		—	
Thurso	29·94	35	34	NNE	6	—	—	9	sq	—	4
Scarborough ...	29·73	35	34	N	5	—	—	9	hs	—	4
Greencastle ...	30·01	38	36	N	5	—	—	7	ch	—	—
Valencia ..	30·08	42	41	NNE	4	—	—	7	scp	—	3
Penzance ...	29·85	41	36	NE	5	—	—	6	c	—	4
London... ...	29·92	38	36	N	3	—	—	9	o	—	—
Rochefort ...						—	—			—	

EXPLANATION OF THE COLUMNS.

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N.B.—The wind is said to "veer" when its direction changes *with the sun*, and to "back" when it shifts in the opposite direction.

* The Norwegian stations do not report rainfall, and their "extreme" wind is an observation taken at 8 p.m.

REMARKS.

Wednesday

The barometer continues to fall slowly everywhere, the change being most noticeable at our eastern stations. The reading at Valencia exceeds that at Helder by 0·55 in.-

Temperature has also fallen a little generally and is uniformly rather low.

The winds freshened a good deal in the night from the N^wd in the east and south-west of the British Isles but have now fallen moderate everywhere from points between N and NE.

Rain has been general over these Islands with snow and hail showers in places. The sky is still cloudy, with a little fog in the south-east. The sea is disturbed on the north-east coasts, moderate elsewhere.

---

2 P.M. Pressure continues to decrease slowly-

The winds are still N^ly, and snow and hail showers have fallen in places-

CORRECTIONS AND ADDITIONS TO PREVIOUS REPORTS.

Reports received too late for insertion in their proper places.

Date.	Station.	Bar.	Temp.		Wind.		Extreme.		Cloud.	Weather.	Rain.	Sea.

Meteorological Office,

ROBERT H. SCOTT,

DIRECTOR.

PRINTED BY VINCENT BROOKS, DAY AND SON, GATE STREET, W.C.

EIGHT A.M.

WEATHER REPORT. 1870. December 8th

Thurs-day

STATIONS.	Barometer.	Thermometer. Dry.	Thermometer. Wet.	Present Wind. Direction.	Present Wind. Force. (0 to 12.)	Extreme Wind. Force. (0 to 12.)	Extreme Wind. Direction.	Amount of Cloud. (0 to 9.)	Weather.	Rain. (Inches)	Sea Distu (0 to
*Christiansund	30·25	25	—	E	8	10	ENE	—	b	—	4
*Skudesnaes ...	30·08	29	—	ENE	6	8	ENE	—	o	—	4
*Oxo (Christiansand)	30·02	25	—	NE	10	10	NNE	—	o s	—	6
Thurso ...	29·945	37	36	ENE	5	6	NNE	5	qc	0·24	3
Wick	29·915	39	37	ENE	7	8	NE	8	o	0·12	6
Nairn	29·847	32	—	NE	4	7	NE	9	o s	0·35	6
Aberdeen ...	29·775	37	35	E	4	4	N	8	s r o	0·17	6
Leith	29·707	35	35	NE	5	5	N	8	b o	0·07	—
Shields	29·647	29	—	WNW	3	5	N	4	s c	0·25	4
Scarborough...	29·707	29	—	W	1	5	N	9	s o	0·47	3
Yarmouth ...	29·691	34	34	NNW	2	4	W	6	c s	—	5
Ardrossan ...	29·74-	33	31	N	2	4	NE	7	b c	—	1
Greencastle ...	29·77f	37	33	NNE	4	6	N	6	q h c	0·11	—
Holyhead ...	29·747	32	—	NNE	4	6	NNE	7	c o	0·13	—
Liverpool ...	29·717	36	32	NW	1	2	NW	0	c f	—	1
Valencia ...	29·917	38	36	NNE	3	4	NNE	6	s o p	0·08	3
Roche's Point	29·867	35	33	N	4	5	N	2	c b	—	3
Pembroke ...	29·75f	32	—	ESE	1	4	NE	9	s t o	0·05	0
Penzance ...	29·82f	34	32	NNE	3	5	NE	6	s t c	0·09	2
Plymouth ...	29·77f	27	—	N	1	2	N	1	c m	—	0
Portsmouth ...	29·72f	29	—	N	1	5	NNW	5	c m	—	1
Dover ...	29·61f	33	33	NE	4	4	N	9	c s	0·04	2
London ...	29·70f	29	—	NNE	2	4	N	9	o	—	—
Helder	29·68	35	—	ESE	3	—	—	—	—	—	2
Cape Gris Nez	29·62f	33	33	NE	7	7	SW	9	o s	0·51	5
Brest											
L'Orient ...											
Rochefort ...											
Biarritz... ...											
Corunna ...			—			—	—	—		—	
Brussels ...			—			—	—	—		—	—
Paris			—			—	—	—		—	—
Strasbourg ...			—			—	—	—		—	—
Lyons			—			—	—	—		—	—
Toulon... ...											
Heart'sContent (9 a.m. local time.)											

2 P.M. REPORT.

Skudesnaes ...						—	—	—		—	
Thurso	30·00	37	36	E	4	—	—	7	p l c	—	3
Scarborough ...	29·79	31	—	W	1	—	—	5	o c	—	3
Greencastle ...	29·76	37	35	NE	4	—	—	8	c h	—	—
Valencia ..	29·86	—	—	N	3	—	—	8	c s p	—	3
Penzance ...	29·76	38	37	WNW	4	—	—	9	s	—	2
London... ...	29·72	33	32	N	3	—	—	9	o	—	—
Rochefort ...						—	—			—	

EXPLANATION OF THE COLUMNS.

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REMARKS.

Thurs-day

The barometer is lower at nearly all our stations than it was yesterday, especially in Ireland; but on the east coast of Gt Britain the changes have been very irregular, and the recovery noticed since 6 p.m at Thurso and Wick has extended to Yarm since midnight. In Norway a rapid rise has taken place, and the reading at Christiansund (30·25 ins:) is 0·61 in: higher than that at Shields.

Temperature has risen in the extreme east of Scotland but fallen elsewhere, especially in the south and east of England. The weather is cold generally, but temperature is very irregular.

The prevailing wind is NEly, blowing a gale in Norway, and strongly in the NE of Scotland. In the NE of England however it draws round locally to WNW, while an ESE breeze is reported from Helder.

Snow and hail have fallen, particularly on the east coast; accompanied by thunder and lightning in the south-west of England. The weather is cloudy and unsettled. The sea is very rough in the north-east, moderate to calm elsewhere.

Warnings issued to the east coast.

CORRECTIONS AND ADDITIONS TO PREVIOUS REPORTS.

Reports received too late for insertion in their proper places.

Date.	Station.	Bar.	Temp.		Wind.		Extreme.		Cloud.	Weather.	Rain.	Sea.
Decr 7th	Rochefort	29·87	21	–	N	4	5	N	0	b	—	1

Meteorological Office,

ROBERT H. SCOTT,

DIRECTOR.

PRINTED BY VINCENT BROOKS, DAY AND SON, GATE STREET, W.C.

EIGHT A.M.

WEATHER REPORT. 1870.

Fri-day — *December - 9th*

STATIONS.	Barometer.	Thermometer. Dry.	Thermometer. Wet.	Present Wind. Direction.	Present Wind. Force. (0 to 12.)	Extreme Wind. Force. (0 to 12.)	Extreme Wind. Direction.	Amount of Cloud. (0 to 9.)	Weather.	Rain. (Inches)	Sea Dist. (0 to
*Christiansund	30·43	29	—	ESE	4	6	ESE	—	b	—	1
*Skudesnaes ...	30·32	33	—	ENE	6	6	ENE	—	o c	—	4
*Oxo (Christiansand)	30·33	23	—	NNE	10	10	NNE	—	s o g	—	6
Thurso ...	30·25 r	36	35	ESE	5	4	E	8	o r	0·23	2
Wick	30·24 r	39	37	E	8	8	ENE	9	o	0·14	7
Nairn	30·15 r	36	35	E	4	2	NE	8	o	0·13	5
Aberdeen ...	30·15 r	40	38	E	6	7	E	9	r	0·22	8
Leith	29·96 r	38	38	E	8	3	ESE	9	o r	0·43	—
Shields	29·87 r	39	38	E	8	8	E	8	o r	0·43	5
Scarborough...	29·81 r	41	40	E	10	8	E	9	r	0·62	7
Yarmouth ...	29·74 s	36	36	ESE	6	6	E	7	r	0·74	7
Ardrossan ...	29·94 r	38	37	ENE	5	2	ESE	8	c s o	0·06	3
Greencastle ...	29·87 r	41	39	E	5	5	E	9	c o	0·15	—
Holyhead ...	29·75 g	37	36	ENE	3	3	SSE	8	c r	0·15	—
Liverpool ...	29·77 g	38	36	NE	1	2	NW	8	r s	0·22	1
Valencia ...	29·83 r	33	31	E	3	3	N	1	s b	0·06	2
Roche's Point	29·81 s	30	—	N	3	5	N	2	b	—	2
Pembroke ...	29·78 r	32	—	NE	1	2	ESE	6	s g	0·49	1
Penzance ...	29·86 r	30	—	NE	3	4	WNW	0	s b	—	2
Plymouth ...	29·81 r	22	—	N	1	1	E	0	m g	—	0
Portsmouth ...	29·78 r	30	—	NW	1	2	N	3	c m	—	1
Dover ...	29·71 r	34	33	NW	3	3	NW	9	s m	0·31	2
London ...	29·73 s	32	—	W	1	3	N	9	o r s	0·13	—
Helder	29·76	34	—	E	6	—	—	—	—	—	4
Cape Gris Nez	29·69 s	34	34	SE	1	3	E	9	g	0·24	1
Brest											
L'Orient ...											
Rochefort ...											
Biarritz... ...											
Corunna ...			—			—	—	—		—	
Brussels ...			—			—	—	—		—	—
Paris			—			—	—	—		—	—
Strasbourg ...			—			—	—	—		—	—
Lyons			—			—	—	—		—	—
Toulon											
Heart'sContent (9 a.m. local time.)											

2 P.M. REPORT.

Skudesnaes ...						—	—	—		—	
Thurso	30·30	37	34	ESE	4	—	—	6	o c	—	2
Scarborough ...	29·88	42	41	ESE	10	—	—	9	r	—	7
Greencastle ...						—	—			—	—
Valencia ..						—	—			—	
Penzance ...						—	—			—	
London... ...	29·79	35	35	WSW	2	—	—	9	s	—	—
Rochefort ...						—	—			—	

EXPLANATION OF THE COLUMNS.

BAROMETER: corrected and reduced to 32° F. at sea level. The letters r. (rising), f. (falling), s. (steady), indicate direction of motion of the mercury within last 14 hours. **THERMOMETER**: dry and wet, exposed in shade. **WIND**: **EXTREME FORCE** with its Direction, during last 24 hours. Z.—calm. **WEATHER**: b.—blue sky; c.—clouds (detached); f.—fog; h.—hail; l. lightning; m.—misty (hazy); o.—overcast (dull); p.—passing showers; q.—squally; r.—rain; s.—snow; t.—thunder. **RAIN-FALL**: (snow or hail melted), during last 24 hours. **SEA DISTURBANCE**: 0=dead calm; 9=extremely high sea.

N.B.—The wind is said to "veer" when its direction changes *with the sun*, and to "back" when it shifts in the opposite direction.

* The Norwegian stations do not report rainfall, and their "extreme" wind is an observation taken at 8 p.m.

REMARKS.

Fri-day

The barometer having risen very briskly on our northern coasts while it has remained steady in the south, and even fallen in the southwest, "gradients" for E^ly winds have become steep in the north-east of England and the reading at Osö now exceeds by 0·59 in: that at Yarmouth.

Temperature has fallen in the south-west of our Islands, and also in the extreme north of Scotland, but risen elsewhere especially in the northeast of England. It is still very irregular, being lowest (22°) at Plymouth.

The E^ly gale has subsided at K'tiansund, but extends to our north-east coasts, where it blows very hard. At our western stations the wind is more N^ly and moderate, drawing gradually round to light W^ly breezes in the south-east of England.

Rain has fallen (and continues) on the North Sea coasts, and snow at most other stations. The sky has however now cleared in the south-west, but the weather is generally unsettled.

The sea is very high on our east coast, calm elsewhere.

Warnings were issued to the east coast yesterday morning.

CORRECTIONS AND ADDITIONS TO PREVIOUS REPORTS.

Reports received too late for insertion in their proper places.

Date.	Station.	Bar.	Temp.		Wind.		Extreme.		Cloud.	Weather.	Rain.	Sea.

Meteorological Office,

ROBERT H. SCOTT,

DIRECTOR.

PRINTED BY VINCENT BROOKS, DAY AND SON, GATE STREET, W.C.

EIGHT A.M.

WEATHER REPORT. 1870.

Satur-day — December-10th

STATIONS.	Barometer.	Thermometer. Dry.	Thermometer. Wet.	Present Wind. Direction.	Present Wind. Force. (0 to 12.)	Extreme Wind. Force. (0 to 12.)	Extreme Wind. Direction.	Amount of Cloud. (0 to 9.)	Weather.	Rain. (Inches.)	Sea Distu (0 to
*Christiansund	30·18	28	—	ESE	4	4	ESE	—	bo	—	4
*Skudesnaes ...	30·21	31	—	S	6	0	Z	—	bs	—	4
*Oxo (Christiansand)	30·22	23	—	NNW	8	8	NNE	—	o	—	-
Thurso ...	30·26 f	30	—	Z	0	4	ESE	3	oc	0·02	1
Wick	30·24 f	37	34	ESE	3	7	E	7	oc	—	4
Nairn	30·23 r	35	34	E	2	5	E	8	o	—	4
Aberdeen ...	30·23 r	37	35	ESE	2	6	E	9	ro	0·27	6
Leith	30·14 r	39	38	E	6	8	E	9	or	0·11	—
Shields	30·10 r	41	39	ESE	4	10	ESE	7	rc	0·33	2
Scarborough...	30·08 r	41	40	SE	5	10	E	9	ro	0·52	9
Yarmouth ...	30·02 r	39	38	E	4	8	E	5	rc	0·39	6
Ardrossan ...	30·18 r	40	38	ENE	3	5	ENE	8	co	—	2
Greencastle ...	30·06 r	42	40	ENE	2	7	NE	9	o	0·17	—
Holyhead ...	29·99 r	36	35	ESE	2	2	ESE	6	oc	0·12	—
Liverpool ...	30·03 r	40	38	ENE	1	2	ENE	8	ro	0·29	1
Valencia ...	29·87 r	41	39	ESE	3	3	E	1	b	—	2
Roche's Point	29·92 r	39	36	ESE	2	4	ESE	3	b	—	3
Pembroke ...	29·97 r	35	34	ENE	2	3	WNW	6	cm	—	2
Penzance ...	29·97 r	35	33	E	4	3	NE	2	b	—	2
Plymouth ...	29·99 r	23	—	Z	0	1	N	1	g	—	0
Portsmouth ...	30·01 r	33	32	NW	1	3	NW	9	go	—	1
Dover ...	29·98 r	36	36	N	1	2	N	9	og	0·07	1
London ...	29·99 r	35	34	NE	1	2	W	9	sm	0·11	—
Helder	30·04	35	—	E	3	—	—	—	—	—	2
Cape Gris Nez											
Brest											
L'Orient ...	29·97 r	? 48	? 48	SE	5	5	S	4	c	—	3
Rochefort ...											
Biarritz... ...											
Corunna ...			—			—	—	—		—	—
Brussels ...			—			—	—	—		—	—
Paris			—			—	—	—		—	—
Strasbourg ...			—			—	—	—		—	—
Lyons			—			—	—	—		—	—
Toulon											
Heart'sContent (9 a.m. local time.)											

2 P.M. REPORT.

Skudesnaes ...						—	—	—		—	
Thurso	30·19	34	33	S	1	—	—	7	cm	—	1
Scarborough ...	30·07	40	39	E	4	—	—	9	o	—	4
Greencastle ...	30·06	43	40	NE	4	—	—	9	o	—	—
Valencia ..	29·87	43	41	ESE	4	—	—	4	bc	—	3
Penzance ...	29·90	39	37	ESE	4	—	—	6	c	—	3
London... ...	29·97	39	38	ENE	1	—	—	9	om	—	—
Rochefort ...						—	—			—	

EXPLANATION OF THE COLUMNS.

BAROMETER: corrected and reduced to 32° F. at sea level. The letters r. (rising), f. (falling), s. (steady), indicate direction of motion of the mercury within last 14 hours. **THERMOMETER**: dry and wet, exposed in shade. **WIND**: **EXTREME FORCE** with its Direction, during last 24 hours. Z.—calm. **WEATHER**: b.—blue sky; c.—clouds (detached); f.—fog; h.—hail; l. lightning; m.—misty (hazy); o.—overcast (dull); p.—passing showers; q.—squally; r.—rain; s.—snow; t.—thunder. **RAIN-FALL**: (snow or hail melted), during last 24 hours. **SEA DISTURBANCE**: 0=dead calm; 9=extremely high sea.

N.B.—The wind is said to "veer" when its direction changes *with the sun*, and to "back" when it shifts in the opposite direction.

* The Norwegian stations do not report rainfall, and their "extreme" wind is an observation taken at 8 p.m.

REMARKS.

Satur-day

The barometer has risen since yesterday on all coasts of our Islands, but a fresh decrease has set in in Norway, which has affected the readings in the extreme north of Scotland during the night. Pressure at Valencia is now 0·36 in: less than at Nairn and Aberdeen.

Temperature is higher except in Scotland, where a slight fall is noticable. In the south of Ireland the rise has been considerable, but slight on our other coasts. The weather is still coldest (23°) at Plymouth and Dover.

The E^ly gale has died down and the wind on our eastern coasts has veered to SE. In the west it is still E^ly, and variable airs prevail on our Channel coast.

Rain has been general in the east and north-west of our Islands, and snow in London. The sky is clear in the south-west, but overcast in other places, and the weather does not seem settled. The North Sea keeps rough, and is reported as extremely high at Scarborough, though the wind has subsided.

Drums lowered in the east of England, but kept up on the east coast of Scotland.

---

2. pm. The barometer is falling irregularly, except in Ireland, where there is no change. A light S^ly wind is reported from Thurso, and the weather seems very unsettled.

CORRECTIONS AND ADDITIONS TO PREVIOUS REPORTS.

Reports received too late for insertion in their proper places.

Date.	Station.	Bar.	Temp.		Wind.		Extreme.		Cloud.	Weather.	Rain.	Sea.
DEC^R												
9th	Greencastle	29·872	41	39	E	5	5	E	9	co	0·15	—
	Correction											
"	Valencia	—	—	—	—	—	3	N	—	ob	—	—

Meteorological Office,

ROBERT H. SCOTT,

DIRECTOR.

PRINTED BY VINCENT BROOKS, DAY AND SON, GATE STREET, W.C.

EIGHT A.M.

WEATHER REPORT. 1870. December 11th.

Sunday

STATIONS.	Barometer.	Thermometer. Dry.	Thermometer. Wet.	Present Wind. Direction.	Present Wind. Force. (0 to 12.)	Extreme Wind. Force. (0 to 12.)	Extreme Wind. Direction.	Amount of Cloud. (0 to 9.)	Weather.	Rain. (Inches)	Sea Dist. (0 to
*Christiansund	29·70	32	—	SSW	4	4	SSW	—	o s	—	4
*Skudesnaes ...	29·84	30	—	ENE	2	0	Z	—	c b	—	3
*Oxo (Christiansand)	29·81	27	—	NNE	4	4	N	—	s o	—	2
Thurso ...	29·87f	33	32	SW	1	1	SW	6	c	0·02	1
Wick	29·86f	32	—	W	2	2	ESE	5	c	—	3
Nairn	29·82f	26	—	S	1	2	E	8	b o	—	2
Aberdeen 9a.m.	29·91f	27	—	W	1	2	ESE	0	o b m	—	3
Leith ... 9a.m.	29·91f	36	34	SSE	2	4	E	8	o	0·02	—
Shields	29·92f	36	35	N	1	5	ESE	9	o m	0·23	3
Scarborough 9:20a.m.	29·94f	37	36	S	1	5	SE	9	o	0·24	3
Yarmouth ...	29·93f	38	38	SE	4	5	E	6	m	—	5
Ardrossan ...											
Greencastle ...	29·84f	40	37	ENE	2	4	NE	9	o	—	—
Holyhead ...	29·83f	38	36	E	2	2	E	5	c	—	—
Liverpool ...	29·87f	39	37	SE	2	2	SE	7	c o	—	1
Valencia ...	29·58f	43	41	SE	6	4	ESE	6	r c	0·02	4
Roche's Point	29·63f	42	41	S	8	8	S	9	c r	0·11	6
Pembroke ...	29·75f	38	37	E	5	4	E	9	m o	—	2
Penzance 9a.m.	29·72f	42	39	SSE	7	5	ESE	9	c o	—	6
Plymouth ...	29·77f	37	35	SE	1	1	N	9	c m	—	1
Portsmouth ...	29·87f	37	36	SSE	2	1	NNE	5	o f	—	1
Dover ...	29·89f	37	36	SSE	1	3	SE	9	f o	0·02	1
London ...	29·88f	36	35	NE	2	2	NE	9	r o	0·02	—
Helder			—			—	—	—	—	—	
Cape Gris Nez											
Brest											
L'Orient ...											
Rochefort ...											
Biarritz... ...											
Corunna ...			—			—	—	—		—	—
Brussels ...			—			—	—	—		—	—
Paris			—			—	—	—		—	—
Strasbourg ...			—			—	—	—		—	—
Lyons			—			—	—	—		—	—
Toulon											
Heart'sContent (9 a.m. local time.)											

2 P.M. REPORT.

Skudesnaes ...						—	—	—		—	
Thurso						—	—			—	
Scarborough ...						—	—			—	
Greencastle ...						—	—			—	
Valencia ..						—	—			—	
Penzance ...						—	—			—	
London... ...						—	—			—	
Rochefort ...						—	—			—	

EXPLANATION OF THE COLUMNS.

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REMARKS.

day

CORRECTIONS AND ADDITIONS TO PREVIOUS REPORTS.

Reports received too late for insertion in their proper places.

Date.	Station.	Bar.	Temp.		Wind.		Extreme.		Cloud.	Weather.	Rain.	Sea

Meteorological Office,

ROBERT H. SCOTT,

DIRECTOR.

PRINTED BY VINCENT BROOKS, DAY AND SON, GATE STREET, W.C.

EIGHT A.M.

WEATHER REPORT. 1870.

Mon-day — December - 12th

STATIONS.	Barometer.	Thermometer. Dry.	Thermometer. Wet.	Present Wind. Direction.	Present Wind. Force. (0 to 12.)	Extreme Wind. Force. (0 to 12.)	Extreme Wind. Direction.	Amount of Cloud. (0 to 9.)	Weather.	Rain. (Inches)	Sea Distu (0 to
*Christiansund	29·52	36	32	ESE	4	4	SSE	—	o	—	4
*Skudesnaes ...	29·63	34	34	ESE	8	4	SSE	—	ro	—	4
*Oxo (Christiansand)	29·42	28	—	NE	6	4	N	—	co	—	2
Thurso ...	29·37 f	24	—	SSW	1	1	SSW	3	bc	—	1
Wick	29·39 f	29	—	SSW	3	2	WSW	6	c	—	3
Nairn	29·34 f	23	—	Z	0	1	S	6	c	—	1
Aberdeen ...	29·38 f	35	34	S	1	1	W	9	o	—	2
Leith	29·30 f	35	—	SSE	3	3	SSE	8	o	—	—
Shields	29·39 f	37	34	S	3	2	SW	8	mpo	0·01	2
Scarborough...	29·40 f	38	37	SSE	6	1	S	9	o	—	5
Yarmouth ...	29·44 f	37	37	SSE	9	9	S	8	mh	—	8
Ardrossan ...	29·26 f	33	32	E	3	2	E	9	o s	0·02	2
Greencastle ...	29·18 f	35	35	NE	5	5	NE	9	o r	0·40	—
Holyhead ...	29·10 f	41	40	E	2	2	E	6	c	0·25	—
Liverpool ...	29·20	38	36	ESE	2	2	ESE	8	c s	0·10	1
Valencia ...	29·09 f	44	44	SW	3	6	SE	8	r	0·42	1
Roche's Point	29·12 f	41	40	SW	2	8	S	9	ro	1·58	5
Pembroke ...	29·13 f	47	44	W	6	8	SW	9	o	0·20	4
Penzance ...	29·31 f	45	45	W	1	7	S	1	rb	0·44	2
Plymouth ...	29·26 f	46	45	W	2	3	SE	9	omo	0·63	1
Portsmouth ...	29·28 f	45	44	SW	4	6	SE	9	cr	0·45	3
Dover ...	29·43 f	38	38	ESE	4	4	SSE	9	br	0·15	3
London ...	29·33 f	36	36	SSW	2	4	N	9	cbr	0·29	—
Helder	29·67	30	—	SE	2	—	—	—	—	—	2
Cape Gris Nez											
Brest											
L'Orient ...											
Rochefort ...											
Biarritz... ...											
Corunna ...			—			—	—	—		—	
Brussels ...			—			—	—	—		—	—
Paris			—			—	—	—		—	—
Strasbourg ...			—			—	—	—		—	—
Lyons			—			—	—	—		—	—
Toulon... ...											
Heart'sContent (9 a.m. local time.)											

2 P.M. REPORT.

Skudesnaes ...	29·58	34	35	SE	6	—	—	—	or	—	4
Thurso	29·28	29	—	Z	0	—	—	8	co	—	0
Scarborough ...	29·24	36	35	S	1	—	—	9	so	—	4
Greencastle ...	29·09	34	36	NE	2	—	—	9	r	—	—
Valencia ..	29·04	46	45	NNE	3	—	—	6	rc	—	2
Penzance ...	29·29	51	49	WSW	5	—	—	6	c	—	3
London... ...	29·36	46	45	SW	1	—	—	4	roc	—	—
Rochefort ...						—	—			—	

EXPLANATION OF THE COLUMNS.

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* The Norwegian stations do not report rainfall, and their "extreme" wind is an observation taken at 8 p.m.

REMARKS.

Mon-day

Since Saturday there has been a great change in atmospherical conditions over our Islands. The barometer has fall^d rapidly everywhere, especially in the north, and readings have become low generally. The lowest is however still at Valencia, and is 0·35 in: less than that at Yarmouth, but 0·58 in: less than at Helder.

Temperature has risen very considerably in the south, but fallen in the north, and Thurso is 22° colder than Pembroke.

The wind had veered to the S^ward in the south of Ireland yesterday, and subsequently increased to a gale at the entrance to the Irish Channel. S^ly breezes have since become prevalent on our other coasts, blowing a strong gale at Yarmouth; while in the west the wind has veered Westwards and moderated.

Rain has fallen generally, very heavily at Roches Point. The sky is overcast, and the weather unsettled.

The sea is rough on our southwest and east coasts, nearly calm elsewhere.

---

2 pm. The barometer has fallen except in the SE; and the wind is backing in the Irish Channel, and is inclined to freshen.

Warnings issued to our W coasts this afternoon

CORRECTIONS AND ADDITIONS TO PREVIOUS REPORTS.

Reports received too late for insertion in their proper places.

Date.	Station.	Bar.	Temp.		Wind.		Extreme.		Cloud.	Weather.	Rain.	Sea
Decr 10.	Rochefort	29·992	?48	?48	SE	5	5	S	4	c	—	

Meteorological Office,

ROBERT H. SCOTT,

DIRECTOR.

PRINTED BY VINCENT BROOKS, DAY AND SON, GATE STREET, W.C.

EIGHT A.M.

WEATHER REPORT. 1870.

Tues-day — December - 13th

STATIONS.	Barometer.	Thermometer. Dry.	Thermometer. Wet.	Present Wind. Direction.	Present Wind. Force. (0 to 12.)	Extreme Wind. Force. (0 to 12.)	Extreme Wind. Direction.	Amount of Cloud. (0 to 9.)	Weather.	Rain. (Inches)	Sea Distur (0 to 9
*Christiansund	29·36	35	35	SE	4	4	ESE	—	o	—	4
*Skudesnaes ...	?29·59	35	34	E	6	8	SE	—	s o r	—	4
*Oxo (Christiansand)	29·46	36	35	—	6	—	—	—	o r	—	—
Thurso ...	?29·36	40	39	NNE	4	1	S	5	o s c	0·13	2
Wick	29·35r	39	36	N	4	3	NNE	8	r o	0·35	3
Nairn	29·35r	36	34	Z	0	2	E	6	s r c	0·20	2
Aberdeen ...	29·33r	36	35	NNW	2	3	SE	4	r c m	—	3
Leith	29·44r	39	39	NNE	2	3	S	9	o r f	0·13	—
Shields	29·33r	38	39	W	2	5	S	9	o c	0·24	3
Scarborough...	29·39r	38	39	W	2	7	SE	3	o c	0·20	3
Yarmouth ...	29·50r	45	45	SSW	4	9	SE	4	c	0·21	5
Ardrossan ...	29·36r	35	34	ESE	2	2	E	9	s f	0·50	1
Greencastle ...	29·35r	40	39	SW	3	5	NE	9	r o	0·43	—
Holyhead ...	?29·48r	39	38	SSW	3	3	SSW	6	c	0·31	—
Liverpool ...	29·40r	40	38	SE	2	1	SE	9	c o	0·10	1
Valencia ...	29·33r	41	40	NNE	2	3	W	9	p c	0·09	1
Roche's Point	29·39r	39	39	E	3	5	SSW	9	o c	0·33	4
Pembroke ...	29·38r	42	41	ENE	2	8	SW	9	o m	0·05	3
Penzance ...	29·42r	50	49	SW	2	5	WSW	9	c r	0·20	3
Plymouth ...	29·44r	50	50	S	2	4	SW	9	o r	0·19	3
Portsmouth ...	29·53r	49	48	SW	4	6	SW	9	c r	0·09	3
Dover ...	29·55r	47	47	WSW	5	6	SE	8	c o	0·28	4
London ...	29·52r	47	47	SW	3	6	SSW	9	c b o	0·05	—
Helder	29·50	42	—	SSW	9	—	—	—	—	—	4
Cape Gris Nez	29·60r	43	41	SSW	8	9	S	9	o m	0·08	5
Brest											
L'Orient ...											
Rochefort ...											
Biarritz... ...											
Corunna ...			—			—	—	—		—	
Brussels ...			—			—	—	—		—	—
Paris			—			—	—	—		—	—
Strasbourg ...			—			—	—	—		—	—
Lyons			—			—	—	—		—	—
Toulon... ...											
Heart'sContent (9 a.m. local time.)											

2 P.M. REPORT.

Skudesnaes ...						—	—	—		—	
Thurso	29·45	40	38	NNE	4	—	—	9	o c	—	3
Scarborough ...	29·49	39	38	WSW	2	—	—	9	c	—	3
Greencastle ...	29·41	39	38	W	1	—	—	8	o	—	—
Valencia ..	29·26	44	42	E	3	—	—	9	c o	—	1
Penzance ...	29·34	51	51	S	3	—	—	9	r	—	1
London... ...	29·50	50	49	SSW	2	—	—	9	r	—	—
Rochefort ...						—	—			—	

EXPLANATION OF THE COLUMNS.

BAROMETER: corrected and reduced to 32° F. at sea level. The letters r. (rising), f. (falling), s. (steady), indicate direction of motion of the mercury within last 14 hours. **THERMOMETER**: dry and wet, exposed in shade. **WIND**: **EXTREME FORCE** with its Direction, during last 24 hours. Z.—calm. **WEATHER**: b.—blue sky; c.—clouds (detached); f.—fog; h.—hail; l. lightning; m.—misty (hazy); o.—overcast (dull); p.—passing showers; q.—squally; r.—rain; s.—snow; t.—thunder. **RAIN-FALL**: (snow or hail melted), during last 24 hours. **SEA DISTURBANCE**: 0=dead calm; 9=extremely high sea.

N.B.—The wind is said to "veer" when its direction changes *with the sun*, and to "back" when it shifts in the opposite direction.

* The Norwegian stations do not report rainfall, and their "extreme" wind is an observation taken at 8 p.m.

REMARKS.

Tues-day

The barometer has ~~now~~ risen at all but our eastern stations, the depression noticed yesterday having passed off to the eastward; and the recovery has now extended to our east coast. Pressure is very uniform, the greatest difference between any two stations being 0·28 in. (Cape Gris-nez to Shields).

Temperature has risen considerably except in the south of Ireland and on the Welsh coast, where it has fallen slightly. Aberdeen is 14° colder than Plymouth.

It blew a gale from the S^ly at Pembroke last evening. Light N^ly breezes now prevail in the north of Scotland, drawing gradually round to NW in the north-east of England; while strong SW winds are reported from Holland. On our western coasts the wind is light and variable.

Rain has again been general, and continues in the south of England and the weather is overcast and unsettled generally. The sea has gone down in most places, and is now moderate to calm.

Drums lowered this morning.

---

2 p.m. The barometer has fallen in the south of the British Islands, but risen a little in the north.

The wind is light from SW in England with rain; and from NE in Ireland and Scotland.

CORRECTIONS AND ADDITIONS TO PREVIOUS REPORTS.

Reports received too late for insertion in their proper places.

Date.	Station.	Bar.	Temp.		Wind.		Extreme.		Cloud.	Weather.	Rain.	Sea.
Dec.	Christiansund	29·52	36	32	ESE	4	4	SSE	—	0	—	4
12.	Skudesnaes	29·63	34	34	ESE	8	4	SSE	—	r o	—	7
"	Oscö	29·72	28	27	NE	6	4	N	—	c o	—	2
"	Naim	29·37g	23	-	L	0	1	S	6	c	—	1
"	Ardrossan	29·26g	33	32	E	3	2	E	9	o s	0·02	2
"	Greencastle	29·18g	35	35	NE	5	5	NE	9	o r	0·40	—

Meteorological Office,

ROBERT H. SCOTT,

DIRECTOR.

PRINTED BY VINCENT BROOKS, DAY AND SON, GATE STREET, W.C.

EIGHT A.M.

WEATHER REPORT. 1870.

Wednesday — December. 14th

STATIONS.	Barometer.	Thermometer. Dry.	Thermometer. Wet.	Present Wind. Direction.	Present Wind. Force. (0 to 12.)	Extreme Wind. Force. (0 to 12.)	Extreme Wind. Direction.	Amount of Cloud. (0 to 9.)	Weather.	Rain. (Inches)	Sea Distur (0 to 9
*Christiansund	29·61	31	–	ESE	4	–	ESE	–	c	–	1
*Skudesnaes ...	29·53	40	39	ESE	6	–	–	–	o	–	4
*Oxo (Christiansand)	29·60	35	33	NNE	6	6	?NNE	–	o	–	3
Thurso ...	29·31 f	40	39	ENE	1	4	NNE	7	o r	0·08	2
Wick	29·29 f	43	41	ESE	4	4	NNE	8	c o	0·03	3
Nairn	29·21 f	36	36	E	4	1	E	9	o	0·06	3
Aberdeen ...	29·22 f	43	42	ESE	4	4	ESE	9	b r	0·02	4
Leith	29·03 f	43	43	E	7	2	NW	9	o r	0·06	–
Shields	29·09 f	44	44	ESE	5	4	SE	8	o r	0·21	3
Scarborough...	29·10 f	45	45	SSE	8	2	WSW	9	c r	0·25	5
Yarmouth ...	29·15 f	48	48	SSW	4	6	S	7	r	0·45	5
Ardrossan ...	28·98 f	39	38	E	6	2	ESE	9	o r	0·34	4
Greencastle ...	28·83 f	44	44	ENE	6	6	ENE	9	o r	0·15	–
Holyhead ...	28·80 f	50	50	ESE	3	5	ESE	8	o	0·35	–
Liverpool ..	28·92 f	48	46	SE	1	2	SE	8	c r	0·48	1
Valencia ...	28·73 f	50	49	W	5	6	E	9	s o	0·75	4
Roche's Point	28·62 f	49	48	SW	4	9	S	9	r o	0·82	6
Pembroke ...	28·78 f	52	52	S	8	8	SSE	9	f o	0·50	5
Penzance ...	29·04 f	52	51	WSW	6	3	S	6	r c	0·46	6
Plymouth ...	29·02 f	55	55	S	6	7	S	9	r	0·54	5
Portsmouth ...	29·17 f	54	53	SSW	6	7	SW	8	r	0·66	5
Dover ...	29·21 f	50	50	WSW	5	5	WSW	6	o c	0·45	4
London ...	29·13 f	55	54	SW	5	6	SSW	9	o p	0·46	–
Helder	29·38	41	–	SE	5	–	–	–	–	–	2
Cape Gris Nez	29·26 f	51	49	SW	9	8	SW	9	m	0·55	6
Brest											
L'Orient ...											
Rochefort ...											
Biarritz... ...											
Corunna ...			–			–	–	–		–	–
Brussels ...			–			–	–	–		–	–
Paris			–			–	–	–		–	–
Strasbourg ...			–			–	–	–		–	–
Lyons			–			–	–	–		–	–
Toulon											
Heart'sContent (9 a.m. local time.)											

2 P.M. REPORT.

Skudesnaes ...						–	–	–		–	
Thurso	29·14	42	41	ESE	3	–	–	8	r	–	2
Scarborough ...						–	–			–	
Greencastle ...						–	–			–	–
Valencia ..	28·98	50	48	NNW	4	–	–	3	m c	–	3
Penzance ...						–	–			–	
London... ...	29·14	56	54	WSW	7	–	–	9	r o	–	–
Rochefort ...						–	–			–	

EXPLANATION OF THE COLUMNS.

BAROMETER: corrected and reduced to 32° F. at sea level. The letters r. (rising), f. (falling), s. (steady), indicate direction of motion of the mercury within last 14 hours. **THERMOMETER**: dry and wet, exposed in shade. **WIND**: **EXTREME FORCE** with its Direction, during last 24 hours. Z.—calm. **WEATHER**: b.—blue sky; c.—clouds (detached); f.—fog; h.—hail; l. lightning; m.—misty (hazy); o.—overcast (dull); p.—passing showers; q.—squally; r.—rain; s.—snow; t.—thunder. **RAIN-FALL**: (snow or hail melted), during last 24 hours. **SEA DISTURBANCE**: 0=dead calm; 9=extremely high sea.

N.B.—The wind is said to "veer" when its direction changes *with the sun*, and to "back" when it shifts in the opposite direction.

* The Norwegian stations do not report rainfall, and their "extreme" wind is an observation taken at 8 p.m.

REMARKS.

Wednes-day

Since yesterday afternoon the barometer has fallen rapidly on all our coasts, especially in the Irish Channel, and readings at our western stations are all below 29 ins. A barometrical depression exists over the south of Ireland, and pressure at Roche's Point (28·62 ins.) is 0·76 in: less than at Helder, and 0·99 in: less than at Christiansund.

Temperature has risen generally, especially in the west, and is high. Nairn is nevertheless 19° colder than Plymouth.

The winds are now W½ in the south of Ireland, and draw gradually round through S and SE over England to E in Scotland, and the north of Ireland. In force they are generally fresh but blow a gale at Pembroke and Scarborough and at Cork a gale has been felt during the night.

Rain has been and continues general. The sky is overcast, and the weather very unsettled. The sea is rough at southern stations, moderate elsewhere.

Warnings issued to all coasts.

---

2. pm. The barometer has commenced rising very rapidly in the west, but continues falling in the north.

Only two coast reports have arrived.

CORRECTIONS AND ADDITIONS TO PREVIOUS REPORTS.

Reports received too late for insertion in their proper places.

Date.	Station.	Bar.	Temp.		Wind.		Extreme.		Cloud.	Weather.	Rain.	Sea.

Meteorological Office,

ROBERT H. SCOTT,

DIRECTOR.

PRINTED BY VINCENT BROOKS, DAY AND SON, GATE STREET, W.C.

EIGHT A.M.

WEATHER REPORT. 1870.

Thurs-day — December. 15.

STATIONS.	Barometer.	Thermometer. Dry.	Thermometer. Wet.	Present Wind. Direction.	Present Wind. Force. (0 to 12.)	Extreme Wind. Force. (0 to 12.)	Extreme Wind. Direction.	Amount of Cloud. (0 to 9.)	Weather.	Rain. (Inches)	Sea Dis (0 to
*Christiansund	29·10	44	37	SSE	4	6	SE	—	o	—	4
*Skudesnaes ...	29·16	44	40	SE	6	6	ESE	—	o	—	7
*Oxo (Christiansand)	29·31	41	41	NE	4	8	NNE	—	r o	—	5
Thurso ...	28·75 f	43	41	NW	4	4	ESE	6	r q	0·82	2
Wick	28·75 f	42	41	WNW	7	7	ESE	9	r o	0·76	6
Nairn	28·86 r	41	40	NNW	2	6	E	9	r o	0·40	4
Aberdeen ...	28·93 r	43	42	W	3	7	SW	7	r c	0·87	5
Leith	29·08 r	44	41	W	7	5	SE	5	c	0·30	1
Shields	29·20 r	46	44	WSW	7	6	SE	2	o b	0·21	2
Scarborough...	29·32 r	44	42	SW	5	8	SE	1	o b	0·24	4
Yarmouth ...	29·56 r	42	41	SW	3	6	WSW	0	c b	—	3
Ardrossan ...	29·16 r	46	43	W	5	7	SSW	4	r c	0·54	4
Greencastle ...	29·29 r	42	40	WNW	2	5	SW	9	o	0·35	—
Holyhead ...	29·34 r	48	47	SSW	4	7	SSW	5	c	0·05	—
Liverpool ...	29·33 r	49	45	SW	1	1	S	3	c	0·03	1
Valencia ...	29·34 r	46	45	WSW	3	4	WNW	5	p c	0·03	1
Roche's Point	29·35 r	46	44	SW	2	7	WSW	4	o c	—	6
Pembroke ...	29·41 r	49	47	SW	4	9	SW	8	c o	—	3
Penzance ...	29·53 r	47	46	WSW	2	6	NW	9	c o	—	4
Plymouth ...	29·51 r	49	49	S	1	5	SW	9	r f	0·04	1
Portsmouth ...	29·57 r	47	46	SW	1	7	SW	8	r q o	0·08	1
Dover ...	29·62 r	47	47	W	3	6	WSW	3	c b	0·03	2
London ...	29·57 r	46	45	SW	2	7	SW	8	r b c	0·12	—
Helder	29·56	45	—	SW	5	—	—	—	—	—	2
Cape Gris Nez	29·65 r	46	44	WSW	4	8	SW	8	m o	0·08	3
Brest											
L'Orient ...											
Rochefort ...											
Biarritz... ...											
Corunna ...			—			—	—	—		—	—
Brussels ...			—			—	—	—		—	—
Paris			—			—	—	—		—	—
Strasbourg ...			—			—	—	—		—	—
Lyons			—			—	—	—		—	—
Toulon... ...											
Heart'sContent (9 a.m. local time.)											

2 P.M. REPORT.

Skudesnaes ...						—	—	—		—	
Thurso	29·06	42	39	NW	5	—	—	5	o c	—	4
Scarborough ...	29·38	47	45	WSW	4	—	—	8	c o	—	3
Greencastle ...	29·44	40	37	WNW	2	—	—	8	o	—	1
Valencia ..	29·43	48	46	W	3	—	—	4	c	—	1
Penzance ...	~~29·43~~	~~48~~	~~46~~	~~W~~	~~3~~	—	—	~~4~~	~~c~~	—	—
London... ...	29·52	49	49	SSW	2	—	—	9	o r	—	
Rochefort ...						—	—			—	

EXPLANATION OF THE COLUMNS.

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N.B.—The wind is said to "veer" when its direction changes *with the sun*, and to "back" when it shifts in the opposite direction.

* The Norwegian stations do not report rainfall, and their "extreme" wind is an observation taken at 8 p.m.

REMARKS.

Thurs-day

Since yesterday morning the barometer has recovered rapidly in the south of the British Islands, while in the north readings have given way; the depression noticed yesterday having passed to the NE^ward. At 6 a.m to-day the reading 28·65 ins: was recorded at Thurso, but the rise has since extended to that part of our coasts. Pressure is highest in the south, and the reading at Cape Gris Nez is 0·90 in. higher than those in Caithness.

Temperature has risen at most northern stations and fallen in the south. It is now very uniform.

It has blown a strong breeze from the S^ward on nearly all coasts since yesterday, the wind subsequently veering to the W^ward, and moderating at the southern stations. This morning, however, a tendency to "back" again is noticeable in the south-west of our Islands.

Rain has fallen except in the south-west of England. The sky has cleared on our east coast, but is cloudy in other places. The sea is rough in the north, at at the entrance to the Irish Channel, moderate to calm elsewhere.

Drums lowered except in Ireland and Scotland.

---

2. pm. The barometer continues to rise especially in the north of the British Isles, but a fall has commenced in London. Winds are scarcely changed.

CORRECTIONS AND ADDITIONS TO PREVIOUS REPORTS.

Reports received too late for insertion in their proper places.

Date.	Station.	Bar.	Temp.		Wind.		Extreme.		Cloud.	Weather.	Rain.	Sea.
DEC^R												
14TH	Rochefort	29·54f	45	45	S	5	4	SE	9	br	0·16	3
—"—	Biarritz	29·53f	61	54	S	7	5	S	8	cf	—	3

Meteorological Office,

ROBERT H. SCOTT,

DIRECTOR.

PRINTED BY VINCENT BROOKS, DAY AND SON, GATE STREET, W.C

EIGHT A.M.

WEATHER REPORT. 1870.

Fri-day — December 16th

STATIONS.	Barometer.	Thermometer. Dry.	Thermometer. Wet.	Present Wind. Direction.	Present Wind. Force. (0 to 12.)	Extreme Wind. Force. (0 to 12.)	Extreme Wind. Direction.	Amount of Cloud. (0 to 9.)	Weather.	Rain. (Inches)	Sea Dist. (0 to
*Christiansund	29·19	41	35	S	6	6	—	—	o b	—	4
*Skudesnaes ...	29·46	39	36	W	6	6	SSW	—	o c	—	6
*Oxo (Christiansand)	29·45	40	38	NNW	2	6	SSW	—	o	—	3
Thurso ...	29·56 r	37	34	WNW	4	5	NW	5	p s c	0·62	3
Wick	29·59 r	32	—	?WNW	6	7	WNW	8	s c	0·26	5
Nairn	29·64 r	34	32	NNW	2	3	WNW	0	c b	—	2
Aberdeen ...	29·70 r	32	—	WSW	1	3	W	0	b m	—	2
Leith	29·75 r	33	32	WNW	2	5	W	1	b f	—	—
Shields	29·77 r	32	—	W	2	5	WSW	8	b o	—	1
Scarborough...	29·83 r	32	—	W	2	5	SW	1	c b	—	2
Yarmouth ...	29·85 r	35	35	W	3	4	SW	3	c m	0·11	3
Ardrossan ...	29·77 r	39	37	NNW	3	6	W	3	c	—	2
Greencastle ...	29·81 r	35	33	W	1	2	WNW	5	o c	—	—
Holyhead ...	29·87 r	46	45	ENE	4	6	NNW	5	c	—	—
Liverpool ..	29·82 r	48	44	NE	1	1	W	0	c f	—	1
Valencia ...	29·68 r	40	39	E	6	5	NW	8	r	0·19	5
Roche's Point	29·69 r	40	40	E	5	5	E	9	c r	0·24	4
Pembroke ...	29·69 r	44	43	ESE	4	3	SSW	9	f m	0·14	3
Penzance ...	29·73 r	47	47	S	3	3	NW	5	o c	0·38	4
Plymouth ...	29·73 r	46	46	W	1	1	S	9	f r	0·53	0
Portsmouth ...	29·84 r	42	41	ENE	1	2	SSW	7	r f	0·50	1
Dover ...	29·86 r	43	43	NW	1	3	SSE	9	o	0·42	1
London ...	29·84 r	42	41	E	2	4	SW	9	r o	0·58	—
Helder	29·73	44	—	WNW	4	—	—	—	—	—	2
Cape Gris Nez	29·86 r	45	45	W	1	4	WSW	9	c f	0·79	1
Brest											
L'Orient ...											
Rochefort ...											
Biarritz... ...											
Corunna ...			—			—	—	—		—	—
Brussels ...			—			—	—	—		—	—
Paris			—			—	—	—		—	—
Strasbourg ...			—			—	—	—		—	—
Lyons			—			—	—	—		—	—
Toulon											
Heart'sContent (9 a.m. local time.)											

2 P.M. REPORT.

Skudesnaes ...						—	—	—		—	
Thurso	29·68	36	34	WNW	4	—	—	6	s p q	—	4
Scarborough ...	29·90	34	32	W	2	—	—	7	c	—	2
Greencastle ...	29·92	38	36	SW	3	—	—	4	c	—	—
Valencia ..	29·75	43	41	E	5	—	—	7	s c	—	4
Penzance ...	29·71	51	50	SSW	3	—	—	9	r	—	4
London... ...	29·86	44	42	SE	2	—	—	9	r	—	—
Rochefort ...						—	—			—	

EXPLANATION OF THE COLUMNS.

BAROMETER: corrected and reduced to 32° F. at sea level. The letters r. (rising), f. (falling), s. (steady), indicate direction of motion of the mercury within last 14 hours. **THERMOMETER**: dry and wet, exposed in shade. **WIND**: **EXTREME FORCE** with its Direction, during last 24 hours. Z.—calm. **WEATHER**: b.—blue sky; c.—clouds (detached); f.—fog; h.—hail; l. lightning; m.—misty (hazy); o.—overcast (dull); p.—passing showers; q.—squally; r.—rain; s.—snow; t.—thunder. **RAIN-FALL**: (snow or hail melted), during last 24 hours. **SEA DISTURBANCE**: 0=dead calm; 9=extremely high sea.

N.B.—The wind is said to "veer" when its direction changes *with the sun*, and to "back" when it shifts in the opposite direction.

* The Norwegian stations do not report rainfall, and their "extreme" wind is an observation taken at 8 p.m.

REMARKS.

Fri-day

The depression noticed on Wednesday has now passed off from our coasts, and barometers have again risen generally, especially in the north. Readings are now highest along a band lying northwest and southeast across our Islands; that at Holyhead being 0·31 in: greater than at Thurso, and 0·20 in: greater than at Roches Point.

Temperature has fallen except at Penzance. The change is greatest in the north-east, – 14° at Shields. Penzance is 15° warmer than our north-east coasts.

The winds have now moderated at our northern stations, but remain W^ly; while in the southwest they have shifted to the E^ly, and freshened slightly in the south of Ireland.

Snow has fallen in the north of Scotland, and rain in the south of England and Ireland. The sky has cleared except on the southern coasts where it continues overcast. The sea is still moderate in the north and southwest, calm elsewhere.

---

2. pm.

The barometer is still rising generally – No other change to report.

CORRECTIONS AND ADDITIONS TO PREVIOUS REPORTS.

Reports received too late for insertion in their proper places.

Date.	Station.	Bar.	Temp.		Wind.		Extreme.		Cloud.	Weather	Rain.	Sea.

Meteorological Office,

ROBERT H. SCOTT,

DIRECTOR.

PRINTED BY VINCENT BROOKS, DAY AND SON, GATE STREET, W.C.

EIGHT A.M.

WEATHER REPORT. 1870.

Satur-day — December 17th

STATIONS.	Barometer.	Thermometer. Dry.	Thermometer. Wet.	Present Wind. Direction.	Present Wind. Force. (0 to 12.)	Extreme Wind. Force. (0 to 12.)	Extreme Wind. Direction.	Amount of Cloud. (0 to 9.)	Weather.	Rain. (Inches)	Sea Distu (0 to
*Christiansund	29·36	37	—	SSW	8	—	—	—	o r	—	—
*Skudesnaes ...	29·59	36	34	WSW	4	6	WNW	—	o	—	4
*Oxo (Christiansand)	29·62	36	34	WSW	4	6	WSW	—	c	—	3
Thurso ...	29·72 g	39	35	WNW	5	4	WNW	4	s p c	0·52	3
Wick	29·72 g	34	33	NW	4	6	WNW	7	s c	0·30	3
Nairn	29·80 g	34	32	WNW	1	4	NNW	2	c b	0·22	1
Aberdeen ...	29·78 g	36	34	NNW	1	1	W	6	b c	—	1
Leith	29·89 g	40	37	NW	6	2	W	6	b c	—	—
Shields	29·91 g	33	32	W	2	2	W	8	b o	—	1
Scarborough...	29·96 r	29	—	W	2	2	W	1	c b	—	2
Yarmouth ...	29·99 r	41	41	NNE	3	4	N	4	m c	—	3
Ardrossan ...	29·91 g	39	37	NW	4	2	NNW	8	c o		3
Greencastle ...	29·97 g	37	35	WSW	4	3	SW	5	m c	—	—
Holyhead ...	30·04 r	35	34	SSE	3	4	SSE	5	c	—	—
Liverpool ...	30·03 r	36	34	NE	1	1	NE	0	c g	—	1
Valencia ...	30·12 r	36	34	NE	3	5	E	1	c b	0·03	1
Roche's Point	30·06 r	35	33	NNE	3	3	NNE	3	l c	0·03	3
Pembroke ...											
Penzance ...	30·01 r	46	46	NE	4	3	SSW	9	r	0·52	2
Plymouth ...	29·94 r	43	42	E	2	2	SW	3	r c	0·62	1
Portsmouth ...	29·99 r	42	41	NE	2	2	SSE	9	r g	0·21	1
Dover ...	29·95 r	44	44	NNW	2	3	SSW	5	o c	0·35	1
London ...	29·98 r	41	40	NE	2	2	E	9	r m	0·24	—
Helder	29·96	37	—	SW	2	—	—	—	—	—	2
Cape Gris Nez	29·96 r	46	46	N	1	1	SW	9	r o	0·08	1
Brest	?29·90 r	49	49	SW	2	4	SSW	3	o f	0·16	5
L'Orient ...	29·96 r	49	49	WSW	4	5	SW	4	c	0·47	5
Rochefort ...											
Biarritz... ...											
Corunna ...			—			—	—	—		—	—
Brussels ...			—			—	—	—		—	—
Paris			—			—	—	—		—	—
Strasbourg ...			—			—	—	—		—	—
Lyons			—			—	—	—		—	—
Toulon... ...											
Heart'sContent (9 a.m. local time.)											

2 P.M. REPORT.

Skudesnaes ...						—	—	—		—	
Thurso	29·82	40	34	NW	6	—	—	4	s p c	—	4
Scarborough ...	29·94	36	34	W	2	—	—	7	c	—	2
Greencastle ...	30·01	41	40	N	1	—	—	8	r o	—	
Valencia ..						—	—			—	
Penzance ...						—	—			—	
London... ...	30·02	43	42	E	2	—	—	9	o	—	—
Rochefort ...						—	—			—	

EXPLANATION OF THE COLUMNS.

BAROMETER: corrected and reduced to 32° F. at sea level. The letters r. (rising), f. (falling), s. (steady), indicate direction of motion of the mercury within last 14 hours. **THERMOMETER**: dry and wet, exposed in shade. **WIND**: **EXTREME FORCE** with its Direction, during last 24 hours. Z.—calm. **WEATHER**: b.—blue sky; c.—clouds (detached); f.—fog; h.—hail; l. lightning; m.—misty (hazy); o.—overcast (dull); p.—passing showers; q.—squally; r.—rain; s.—snow; t.—thunder. **RAIN-FALL**: (snow or hail melted), during last 24 hours. **SEA DISTURBANCE**: 0=dead calm; 9=extreme high sea.

N.B.—The wind is said to "veer" when its direction changes *with the sun*, and to "back" when it shifts in the opposite direction.

* The Norwegian stations do not report rainfall, and their "extreme" wind is an observation taken at 8 p.m.

REMARKS.

Saturday

The barometer is again higher at all stations than it was, the change being most noticable in the south-west of our Islands, where the slight depression noticed yesterday has disappeared. The highest reading is at Valencia, exceeding that at Wick by 0·40 in: and that at Christiansund by 0·76 in:

Temperature has fallen at our south-western and central stations and in Norway, but risen elsewhere. Scarborough is 10° colder than Thurso, and 14° colder than Penzance.

Moderate WNW breezes are reported from our northern coasts, drawing to the SW^rly over Norway; while in our southern districts light NE winds have become general.

Rain has again fallen in the north of Scotland, and south of England. Faint aurora has been observed at Valencia and Thurso, and lightning at Roches Point. The weather continues very cloudy in the south, and rather so generally. The sea is moderate in the north, calm elsewhere.

CORRECTIONS AND ADDITIONS TO PREVIOUS REPORTS.

Reports received too late for insertion in their proper places.

Date.	Station.	Bar.	Temp.		Wind.		Extreme.		Cloud.	Weather.	Rain.	Sea.

Meteorological Office,

ROBERT H. SCOTT,

DIRECTOR.

PRINTED BY VINCENT BROOKS, DAY AND SON, GATE STREET, W.C

EIGHT A.M.

WEATHER REPORT. 1870.

Sunday — December 18th

STATIONS.	Barometer.	Thermometer. Dry.	Thermometer. Wet.	Present Wind. Direction.	Present Wind. Force. (0 to 12.)	Extreme Wind. Force. (0 to 12.)	Extreme Wind. Direction.	Amount of Cloud. (0 to 9.)	Weather.	Rain. (Inches)	Sea Distu (0 to
*Christiansund	29·66	32	–	NE	6	6	SE	—	co	—	6
*Skudesnaes ...	29·77	34	33	NNW	2	0	Z	—	so	—	6
*Oxo (Christiansand)	29·78	28	–	NNE	4	6	W	—	cb	—	3
Thurso ...	29·65f	34	34	S	2	6	NW	8	cr	0·10	2
Wick	29·64f	38	37	SSE	6	6	NW	9	cr	0·26	4
Nairn	29·67f	35	35	WNW	1	1	WNW	9	csr	0·27	2
Aberdeen 9 a.m.	29·75f	35	34	S	3	4	NW	9	bsr	0·13	2
Leith ... 9 a.m.	29·80f	34	34	W	2	5	WNW	9	orf	0·17	—
Shields	29·83f	40	40	WSW	2	3	WNW	9	bm	0·09	1
Scarborough 9·20 a.m.	29·90f	40	40	W	4	3	W	9	cr	—	3
Yarmouth ...	30·05s	42	42	WNW	3	4	W	4	mc	—	4
Ardrossan ...	29·84f	51	48	WSW	7	4	NW	8	or	0·54	6
Greencastle 10 a.m.	29·91f	48	47	WSW	5	5	WSW	9	ro	0·48	—
Holyhead ...	30·08f	47	46	WSW	5	7	WSW	8	co	0·15	—
Liverpool ..											
Valencia ...	30·25f	48	46	WSW	3	3	NNE	6	bc	—	2
Roche's Point	30·23f	45	43	WSW	3	3	N	4	bc	—	3
Pembroke ...	30·17o	49	45	W	6	6	W	7	c	—	3
Penzance 9 a.m.	30·36r	45	44	NW	3	4	NE	4	c	—	1
Plymouth ...	30·30r	43	42	NW	1	2	NNW	5	mf	—	0
Portsmouth ...	30·21r	42	41	WSW	4	2	NW	9	fo	0·04	3
Dover ...	30·15r	40	39	SW	3	2	NNW	4	c	—	1
London ...	30·14r	41	40	SW	3	3	SSW	9	cco	—	—
Helder			—			—	—	—	—	—	
Cape Gris Nez	30·17r	45	41	W	5	4	N	9	o	—	4
Brest											
L'Orient ...											
Rochefort ...	30·25r	45	45	W	3	4	S	6	cf	—	3
Biarritz... ...											
Corunna ...			—			—	—	—		—	—
Brussels ...			—			—	—	—		—	—
Paris			—			—	—	—		—	—
Strasbourg ..			—			—	—	—		—	—
Lyons			—			—	—	—		—	—
Toulon											
Heart'sContent (9 a.m. local time.)											

2 P.M. REPORT.

Skudesnaes ...						—	—	—		—	
Thurso						—	—			—	
Scarborough ...						—	—			—	
Greencastle ...						—	—			—	—
Valencia ..						—	—			—	
Penzance ...						—	—			—	
London... ...						—	—			—	—
Rochefort ...						—	—			—	

EXPLANATION OF THE COLUMNS.

BAROMETER: corrected and reduced to 32° F. at sea level. The letters r. (rising), f. (falling), s. (steady), indicate direction of motion of the mercury within last 14 hours. **THERMOMETER**: dry and wet, exposed in shade. **WIND**: **EXTREME FORCE** with its Direction, during last 24 hours. Z.—calm. **WEATHER**: b.—blue sky; c.—clouds (detached); f.—fog; h.—hail; l. lightning; m.—misty (hazy); o.—overcast (dull); p.—passing showers; q.—squally; r.—rain; s.—snow; t.—thunder. **RAIN-FALL**: (snow or hail melted), during last 24 hours. **SEA DISTURBANCE**: 0=dead calm; 9=extremely high sea.

N.B.—The wind is said to "veer" when its direction changes *with the sun*, and to "back" when it shifts in the opposite direction.

* The Norwegian stations do not report rainfall, and their "extreme" wind is an observation taken at 8 p.m.

REMARKS.

day

CORRECTIONS AND ADDITIONS TO PREVIOUS REPORTS.

Reports received too late for insertion in their proper places.

Date.	Station.	Bar.	Temp.		Wind.		Extreme.		Cloud.	Weather.	Rain.	Sea

Meteorological Office,

ROBERT H. SCOTT,

DIRECTOR.

PRINTED BY VINCENT BROOKS, DAY AND SON, GATE STREET, W.C

EIGHT A.M.

WEATHER REPORT. 1870.

Monday — December. 19

STATIONS.	Barometer.	Thermometer. Dry.	Thermometer. Wet.	Present Wind. Direction.	Present Wind. Force. (0 to 12.)	Extreme Wind. Force. (0 to 12.)	Extreme Wind. Direction.	Amount of Cloud. (0 to 9.)	Weather.	Rain. (Inches)	Sea Distu (0 to
*Christiansund	29·73	25	—	E	6	6	ENE	—	o	—	4
*Skudesnaes ...	29·74	25	—	ESE	6	8	SE	—	o	—	4
*Oxo (Christiansand)	29·89	19	—	NNE	8	4	NNE	—	o s	—	—
Thurso ...	29·51 r	40	34	WNW	2	2	S	7	r c	0·77	2
Wick	29·54 r	36	36	WNW	3	4	SSE	8	r o	0·75	3
Nairn	29·55 r	40	40	Z	0	3	WNW	9	r	0·41	2
Aberdeen ...	29·56 g	39	38	Z	0	3	S	9	r m	0·39	1
Leith	29·58 g	50	48	W	6	8	W	6	o c	0·01	—
Shields	29·64 g	49	48	W	5	7	W	7	o c	0–01	1
Scarborough...	29·64 g	49	48	W	2	4	W	9	o	0·24	3
Yarmouth ...	29·74 g	48	48	WNW	6	8	W	8	r	0·41	6
Ardrossan ...	29·60 g	50	48	SSE	2	9	W	8	o	0·12	4
Greencastle ...	29·76 g	48	48	WSW	2	6	WSW	9	o	0·05	—
Holyhead ...	29·80 g	49	48	WSW	4	7	WSW	9	o r	0·28	—
Liverpool ..	29·78	50	49	SW	2	2	SW	8	r	0·40	1
Valencia ...	29·92 g	51	50	SW	4	3	WSW	9	o r	0·07	3
Roche's Point	29·93 g	51	50	WSW	3	4	WSW	9	c m	—	3
Pembroke ...	29·90 g	50	49	W	7	8	W	9	c o	0·03	4
Penzance ...	30·13 g	50	48	W	5	5	NW	9	c o	—	3
Plymouth ...	30·07 g	50	49	W	3	3	W	9	m g	—	0
Portsmouth ...	29·98 g	48	47	W	4	5	W	9	o	—	3
Dover ...	29·76 g	47	46	WNW	4	4	NW	7	c	0·01	3
London ...	29·88 g	49	48	W	6	7	WSW	9	g o	—	—
Helder	29·63	47	—	W	4	—	—	—	—	—	5
Cape Gris Nez	29·89 g	48	46	W	8	7	W	9	o m	—	6
Brest											
L'Orient ...											
Rochefort ...	29·33 g	41	40	N	3	4	N	9	b o	—	3
Biarritz... ...											
Corunna ...			—			—	—	—		—	—
Brussels ...			—			—	—	—		—	—
Paris			—			—	—	—		—	—
Strasbourg ...			—			—	—	—		—	—
Lyons			—			—	—	—		—	—
Toulon... ...											
Heart'sContent (9 a.m. local time.)											

2 P.M. REPORT.

Skudesnaes ...						—	—	—		—	1
Thurso	29·51	38	34	Z	0	—	—	8	c o	—	3
Scarborough ...	29·58	50	49	W	3	—	—	9	o r	—	—
Greencastle ...						—	—			—	4
Valencia ..	29·83	52	52	W	5	—	—	9	o m	—	3
Penzance ...	29·95	52	50	W	5	—	—	9	o	—	—
London... ...	29·99	52	50	WSW	4	—	—	9	r o	—	
Rochefort ...						—	—			—	

EXPLANATION OF THE COLUMNS.

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N.B.—The wind is said to "veer" when its direction changes *with the sun*, and to "back" when it shifts in the opposite direction.

* The Norwegian stations do not report rainfall, and their "extreme" wind is an observation taken at 8 p.m.

REMARKS.

Mon - day

Yesterday morning the barometer had risen considerably and was high in the south of our Islands, while a fall had already set in the north. To-day the fall has been general, and during the past night has become most marked in the south of Ireland. The reading at Penzance is 0·62 in: higher than at Thurso.

Temperature has risen considerably at all stations, and is high in the south-west.

It has blown strongly from W during the past day on nearly all the English coasts, but the wind has now subsided in most places. In the south of Ireland however it is apparently "backing" again.

Rain has been general, heavy in the north, and it is now raining in the south of Ireland. Bright aurora was seen in the west and north on Saturday night. The sky is overcast generally, and the weather unsettled. The sea is moderate.

Warnings issued to the west coasts.

2. p.m. The barometer has again fallen except at Thurso, especially at Penzance.

Winds are moderate from the westward.

CORRECTIONS AND ADDITIONS TO PREVIOUS REPORTS.

Reports received too late for insertion in their proper places.

Date.	Station.	Bar.	Temp.		Wind.		Extreme.		Cloud.	Weather.	Rain.	Sea.
Dec												
17th	Pembroke	29·992	38	36	NE	2	6	ENE	3	o mo	0·05	2
"	Brest	?29·902	49	49	SW	3	4	SSW	3	o g	0·16	5
"	Rochefort	?29·998	46	46	S	4	4	WSW	5	r c	0·16	3

Meteorological Office.

ROBERT H. SCOTT,

DIRECTOR.

PRINTED BY VINCENT BROOKS, DAY AND SON, GATE STREET, W.C

EIGHT A.M.

WEATHER REPORT. 1870.

Tuesday — December 20th

STATIONS.	Barometer.	Thermometer. Dry.	Thermometer. Wet.	Present Wind. Direction.	Present Wind. Force. (0 to 12.)	Extreme Wind. Force. (0 to 12.)	Extreme Wind. Direction.	Amount of Cloud. (0 to 9.)	Weather.	Rain. (Inches)	Sea Distu (0 to
*Christiansund	30·06	15	—	ESE	6	6	E	—	b	—	4
*Skudesnaes ...	30·01	16	—	E	6	6	ESE	—	o b	—	4
*Oxo (Christiansand)	30·06	10	—	NNE	8	8	NNE	—	s o	—	5
Thurso ...	29·60r	35	35	SSE	3	1	S	7	s r	0·46	2
Wick	29·61r	38	37	SE	9	7	SE	9	r	0·70	7
Nairn	29·58r	36	35	NW	1	3	ENE	9	p o	0·16	1
Aberdeen ...	29·59r	39	38	ESE	7	7	ESE	9	m r	0·10	9
Leith	29·54r	40	38	W	3	5	W	7	o g	—	—
Shields	29·54r	43	41	NNW	3	4	W	6	c m	0·25	1
Scarborough...	29·52g	43	42	NNW	2	3	W	8	r o	0·39	3
Yarmouth ...	29·52g	43	43	NW	4	7	W	6	r m	0·76	6
Ardrossan ...	29·60r	41	38	N	2	7	WNW	5	c	0·02	1
Greencastle ...	29·63r	40	40	NNW	1	6	NW	8	o r	0·11	—
Holyhead ...	29·66r	49	47	WSW	3	6	WSW	5	r c	0·54	—
Liverpool ..	29·61r	47	45	S	2	1	SE	8	r o	0·88	1
Valencia ...	29·85g	46	44	NNW	5	5	WNW	6	p	0·29	4
Roche's Point	29·73g	46	44	WNW	4	5	NW	8	c p o	0·07	3
Pembroke ...	29·69r	47	45	WNW	2	7	WSW	9	g o	0·07	3
Penzance ...	29·79g	48	47	NW	4	5	W	6	o p c	0·09	2
Plymouth ...	29·81s	46	45	NW	1	3	SW	9	m g	0·02	1
Portsmouth ...	29·70g	43	42	W	2	5	W	6	o g c	0·02	2
Dover ...	29·60g	43	41	W	3	5	WSW	3	c b	0·25	3
London ...	29·63g	43	42	NW	2	8	WSW	6	o g c	0·10	—
Helder	29·46	33	—	E	7	—	—	—	—	—	5
Cape Gris Nez	29·61g	45	41	NW	5	9	W	4	r c	0·20	5
Brest											
L'Orient ...											
Rochefort ...											
Biarritz... ...											
Corunna ...			—			—	—	—		—	—
Brussels ...			—			—	—	—		—	—
Paris			—			—	—	—		—	—
Strasbourg ...			—			—	—	—		—	—
Lyons			—			—	—	—		—	—
Toulon... ...											
Heart'sContent (9 a.m. local time.)											

2 P.M. REPORT.

Skudesnaes ...						—	—	—		—	
Thurso	29·73	34	34	SSE	5	—	—	9	s	—	2
Scarborough ...	29·62	39	38	SSE	8	—	—	9	o r	—	6
Greencastle ...	29·67	44	42	NNE	1	—	—	8	o r	—	—
Valencia ..	29·84	48	45	NNW	6	—	—	5	p	—	5
Penzance ...	29·74	47	44	NNW	5	—	—	7	c	—	3
London... ...	29·63	50	45	WNW	4	—	—	9	o	—	—
Rochefort ...						—	—			—	

EXPLANATION OF THE COLUMNS.

BAROMETER: corrected and reduced to 32° F. at sea level. The letters r. (rising), f. (falling), s. (steady), indicate direction of motion of the mercury within last 14 hours. **THERMOMETER**: dry and wet, exposed in shade. **WIND**: **EXTREME FORCE** with its Direction, during last 24 hours. Z.—calm. **WEATHER**: b.—blue sky; c.—clouds (detached); f.—fog; h.—hail; l. lightning; m.—misty (hazy); o.—overcast (dull); p.—passing showers; q.—squally; r.—rain; s.—snow; t.—thunder. **RAIN-FALL**: (snow or hail melted), during last 24 hours. **SEA DISTURBANCE**: 0=dead calm; 9=extreme high sea.

N.B.—The wind is said to "veer" when its direction changes *with the sun*, and to "back" when it shifts in the opposite direction.

* The Norwegian stations do not report rainfall, and their "extreme" wind is an observation taken at 8 p.m.

REMARKS.

Tues- day

The barometer has given way considerably in the south of our Islands, while in the north it has commenced rising; and at Christiansund the rise exceeds 0·3 in. since yesterday morning. The lowest reading is at Helder, and is 0·60 in. less than at Christiansund, and 0·39 in. less than at Valencia.

Temperature has fallen at nearly all stations, and is extremely low in Norway (10° at Oscö)

It has commenced blowing very hard from the SE ly on the east coast of Scotland, but light N ly breezes prevail on our western coasts, drawing to W and NW at the more southern stations. At Helder a strong E ly breeze is reported.

Some snow has fallen in the north, and rain has been general, especially in the east. The sky is cloudy generally. The sea is very high off the east of Scotland, rough off the SE of England, nearly calm elsewhere

Warnings issued to our north and east coasts.

---

2 pm. The barometer is still rising in the N and E, but has fallen slightly in the SW. The SE gale has extended to Scarborough. The wind at Yarmouth had shifted to E shortly after noon, and freshened. The sea runs high on our east Coast.

CORRECTIONS AND ADDITIONS TO PREVIOUS REPORTS.

Reports received too late for insertion in their proper places.

Date.	Station.	Bar.	Temp.		Wind.		Extreme.		Cloud.	Weather.	Rain.	Sea.
Dec.	C. Gris Nez	29·898	48	46	W	8	7	W	9	o m	–	6
19.	Rochefort	29·33	41	40	N	3	4	N	9	bo	–	3
	Correction											
	Ardrossan	–	–	–	S	–	–	–	–	–	–	–

Meteorological Office,

ROBERT H. SCOTT,

DIRECTOR.

PRINTED BY VINCENT BROOKS, DAY AND SON, GATE STREET, W.C

EIGHT A.M.

WEATHER REPORT. 1870.

Wednesday — December 21st

STATIONS.	Barometer.	Thermometer. Dry.	Thermometer. Wet.	Present Wind. Direction.	Present Wind. Force. (0 to 12.)	Extreme Wind. Force. (0 to 12.)	Extreme Wind. Direction.	Amount of Cloud. (0 to 9.)	Weather.	Rain. (Inches.)	Sea Dist (0 to
*Christiansund	30·31	27	26	SSW	4	6	ESE	—	bo	—	3
*Skudesnaes ...	30·26	15	14	N	2	4	ENE	—	b	—	3
*Oxo (Christiansand)	30·17	14	12	N	6	6	NNE	—	c	—	4
Thurso ...	30·16r	30	28	ESE	4	5	SSE	5	sc	0·73	2
Wick	30·18r	33	32	E	6	9	ESE	7	sc	0·36	6
Nairn	30·10r	29	29	E	4	7	E	0	ob	0·09	4
Aberdeen ...	30·16r	29	28	ESE	4	8	ESE	9	rs	0·59	7
Leith	30·03r	32	30	SE	6	7	SE	8	sog	0·07	
Shields	29·97r	33	32	SSE	8	9	SE	7	sc	0·31	7
Scarborough...	29·96r	32	31	SE	7	10	SSE	6	sc	0·09	6
Yarmouth ...	29·88r	30	30	E	8	8	E	6	c	—	6
Ardrossan ...	30·04r	33	31	E	3	4	ESE	7	c	—	2
Greencastle ...	29·88r	37	36	E	4	4	E	9	o	0·07	—
Holyhead ...	29·77r	35	34	ESE	5	6	WSW	5	c	0·09	1
Liverpool ...	29·86r	36	35	E	1	2	SE	8	cs	0·05	3
Valencia ...	29·87f	41	39	E	4	8	NNW	6	rgp	0·08	8
Roche's Point		38	36	NW	3	6	NW	2	rgb	0·06	3
Pembroke ...	29·73s	38	37	ENE	3	3	N	7	cph	0·21	1
Penzance ...	29·80s	41	40	N	3	5	NNW	3	c	0·63	1
Plymouth ...	29·70f	40	39	N	1	2	NNW	3	m	0·12	2
Portsmouth ...	29·75r	33	32	NE	3	3	W	9	c	0·04	5
Dover ...	29·77r	31	29	E	6	2	W	5	c	—	—
London ...	29·79r	31	29	E	7	7	E	9	rso	0·04	4
Helder	29·93	42	—	ENE	7	—	—	—	—	—	4
Cape Gris Nez	29·75r	25	25	E	7	7	NW	8	bo	—	
Brest											
L'Orient ...											
Rochefort ...	29·81r	45	45	N	4	4	W	4	oc	0·08	
Biarritz... ...											
Corunna ...			—			—	—	—		—	
Brussels ...			—			—	—	—		—	
Paris			—			—	—	—		—	
Strasbourg ...			—			—	—	—		—	
Lyons			—			—	—	—		—	
Toulon											
Heart'sContent (9 a.m. local time.)											

2 P.M. REPORT.

Skudesnaes ...						—	—	—		—
Thurso						—	—			—
Scarborough ...	30·03	29	29	E	8	—	—	7	sc	—
Greencastle ...	29·99	47	45	ESE	5	—	—	7	c	—
Valencia ..	29·82	50	47	ESE	1	—	—	5	bc	—
Penzance ...	29·80	41	40	ESE	5	—	—	9	cr	—
London... ...	29·87	30	29	E	6	—	—	9	so	—
Rochefort ...						—	—			—

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N.B.—The wind is said to "veer" when its direction changes *with the sun*, and to "back" when it shifts in the opposite direction.

* The Norwegian stations do not report rainfall, and their "extreme" wind is an observation taken at 8 p.m.

REMARKS.

Wednesday

The barometer has continued to rise quickly in the north and east of the British Islands, while in the southwest and south there has been little change; so that the reading at Wick is now 0·48 in. higher than that at Plymouth.

Temperature has fallen generally, especially in the east and north. At Cape Gris-Nez the weather is 29° colder than it was yesterday, and 16° colder than it is now at Penzance.

The SE gale noticed in the north yesterday extended down our east coast as far as Yarmouth during the night, while equally E by N breezes are reported at the SE ⅓ stations this morning. The gale has now moderated slightly, and disappeared from the Scotch coasts; but moderate E to NE winds have set in on all other coasts of our Islands.

Rain and snow have fallen in most places, principally in the northeast. The weather is very cloudy and unsettled. The North Sea continues very rough, but calm prevails in other parts.

Our east coasts were warned yesterday.

2 p.m. The barometer still rises briskly in the N and E, but has commenced falling at Valencia.

The wind has backed at Scarboro' to E, and freshened to a gale, with snow.

Warnings repeated to our east coast, and extended to the Channel.

CORRECTIONS AND ADDITIONS TO PREVIOUS REPORTS.

Reports received too late for insertion in their proper places.

Date.	Station.	Bar.	Temp.		Wind.		Extreme.		Cloud.	Weather.	Rain.	Sea.

Meteorological Office,

ROBERT H. SCOTT,

DIRECTOR.

PRINTED BY VINCENT BROOKS, DAY AND SON, GATE STREET, W.C

EIGHT A.M.

WEATHER REPORT. 1870.

Thurs-day — December. 22nd

STATIONS.	Barometer.	Thermometer. Dry.	Thermometer. Wet.	Present Wind. Direction.	Present Wind. Force. (0 to 12.)	Extreme Wind. Force. (0 to 12.)	Extreme Wind. Direction.	Amount of Cloud. (0 to 9.)	Weather.	Rain. (Inches.)	Sea Distur (0 to
*Christiansund	30·01	31	30	SSW	4	0	Z	—	c o s	—	4
*Skudesnaes ...	30·18	21	19	NE	2	4	NNW	—	b	—	2
*Oxo (Christiansand)	30·15	13	12	NNW	4	6	N	—	b	—	2
Thurso ...	30·22 g	18	15	SSW	1	2	ESE	5	c	0·03	1
Wick	30·22 s	21	20	NNW	4	4	E	9	c s	0·04	4
Nairn	30·23 r	20	20	Z	0	4	E	0	c b	—	2
Aberdeen ...	30·21 s	25	25	N	1	4	ESE	6	s c m	0·08	4
Leith	30·15 g	29	29	SSE	2	3	SSE	7	c	0·03	—
Shields	30·08 s	30	30	ENE	5	8	E	6	s g c	0·26	6
Scarborough...	30·07 g	31	31	E	6	8	E	8	s o	0·05	5
Yarmouth ...	29·97 g	28	28	E	7	7	E	6	s c	0·94	6
Ardrossan ...	30·16 r	26	26	ENE	2	3	E	1	c g	—	1
Greencastle ...	30·10 r	32	32	SE	3	6	SE	3	c	—	—
Holyhead ...	30·03 r	28	27	ESE	6	8	ENE	6	c	—	—
Liverpool ...	30·04 r	30	27	ENE	1	1	ENE	3	c	—	1
Valencia ...	29·79 r	34	32	E	6	4	ESE	7	c	—	5
Roche's Point	29·86 r	33	32	ESE	8	8	ESE	9	o	0·11	5
Pembroke ...	29·92 r	25	24	ENE	6	7	E	4	s c	0·04	3
Penzance ...	29·88 r	29	27	E	8	8	E	6	c	—	6
Plymouth ...	29·86 g	27	27	E	4	5	E	9	m o	—	1
Portsmouth ...	29·94 r	25	25	NE	1	5	E	4	s c	0·01	1
Dover ...	29·92 r	26	26	E	5	7	ENE	5	c	—	5
London ...	29·94 r	26	26	NE	3	5	E	8	o s	0·03	—
Helder	30·00	22	—	E	2	—	—	—	—	—	2
Cape Gris Nez											
Brest											
L'Orient ...											
Rochefort ...	29·69 r	28	28	WSW	-	8	SW	4	b c	—	3
Biarritz... ...											
Corunna ...			—			—	—	—		—	—
Brussels ...			—			—	—	—		—	—
Paris			—			—	—	—		—	—
Strasbourg ...			—			—	—	—		—	—
Lyons			—			—	—	—		—	—
Toulon											
Heart'sContent (9 a.m. local time.)											

2 P.M. REPORT.

Skudesnaes ...	30·08	24	23	ENE	2	—	—	—	b	—	2
Thurso	30·14	18	14	S	1	—	—	3	b c	—	1
Scarborough ...	30·06	30	30	E	7	—	—	7	s c	—	5
Greencastle ...	30·13	33	32	E	4	—	—	3	c	—	—
Valencia ..	29·89	34	32	E	6	—	—	7	c	—	5
Penzance ...						—	—			—	
London... ...	29·92	27	26	NE	2	—	—	6	b c	—	—
Rochefort ...						—	—			—	

EXPLANATION OF THE COLUMNS.

BAROMETER: corrected and reduced to 32° F. at sea level. The letters r. (rising), f. (falling), s. (steady), indicate direction of motion of the mercury within last 14 hours. **THERMOMETER**: dry and wet, exposed in shade. **WIND**: **EXTREME FORCE** with its Direction, during last 24 hours. Z.—calm. **WEATHER**: b.—blue sky; c.—clouds (detached); f.—fog; h.—hail; l. lightning; m.—misty (hazy); o.—overcast (dull); p.—passing showers; q.—squally; r.—rain; s.—snow; t.—thunder. **RAIN-FALL**: (snow or hail melted), during last 24 hours. **SEA DISTURBANCE**: 0=dead calm; 9=extremely high sea.

N.B.—The wind is said to "veer" when its direction changes *with the sun*, and to "back" when it shifts in the opposite direction.

* The Norwegian stations do not report rainfall, and their "extreme" wind is an observation taken at 8 p.m.

REMARKS.

Thurs-day

The barometer is now higher at nearly all our own stations than it was yesterday; but in Norway it has fallen especially at Christiansund where the change amounts to 0·3 in. The highest reading is now at Nairn, and exceeds that at Valencia by 0·44 in., and that at Christiansund by 0·22 in.

Temperature is rising on the west coast of Norway, but fallen throughout our Islands, and is very low generally. At Thurso the thermometer stands at 18°, while even at Valencia it is only 34°.

The E^ly gale extended to the entrance of the English and Irish Channels last night, but has now subsided except in the southwest. Fresh E^ly breezes are prevalent over England and Ireland, but in the east of Scotland the wind has "backed" to the N^ward and is light.

Snow has fallen on our east coast, heavily at Yarmouth. The sky continues cloudy. The sea is rough in the east and south-west, moderate to calm elsewhere.

Warnings were repeated to the east coast yesterday and extended to the south.

---

2 pm. " — The barometer has risen somewhat in Ireland, but fallen in the N and E.

The E^ly wind continues strong at Scarbro', and the sea rough.

CORRECTIONS AND ADDITIONS TO PREVIOUS REPORTS.

Reports received too late for insertion in their proper places.

Date.	Station.	Bar.	Temp.		Wind.		Extreme.		Cloud.	Weather.	Rain.	Sea.
DEC.												
21st	Rochefort	29·712	45	45	N	4	4	VV	4	0 C	0·08	3
	Correction											
"	Roche's Point	29·812	—	—	—	—	—	—	—	—	—	—

Meteorological Office,

ROBERT H. SCOTT,

DIRECTOR.

PRINTED BY VINCENT BROOKS, DAY AND SON, GATE STREET, W.C.

EIGHT A.M.

WEATHER REPORT. 1870.

Fri-day *December. 23rd.*

STATIONS.	Barometer.	Thermometer. Dry.	Thermometer. Wet.	Present Wind. Direction.	Present Wind. Force. (0 to 12.)	Extreme Wind. Force. (0 to 12.)	Extreme Wind. Direction.	Amount of Cloud. (0 to 9.)	Weather.	Rain. (Inches.)	Sea Distu (0 to
*Christiansund	29·45	31	30	WSW	4	6	SW	—	o	—	5
*Skudesnaes ...	29·73	35	33	–	6	0	Z	—	bos	—	6
*Oxo (Christiansand)	29·76	21	20	N	2	4	NNW	—	bc	—	1
Thurso ...	29·82g	30	29	W	2	2	SSW	8	bo	0·02	2
Wick	29·82g	29	28	W	5	4	NNW	8	co	0·02	3
Nairn	29·92g	25	25	SW	2	0	Z	7	bo	–	1
Aberdeen ...	29·94g	27	26	WSW	1	1	N	1	cb	–	2
Leith	30·01g	16	16	WNW	2	4	SE	2	cg	0·01	—
Shields	30·02g	21	21	WNW	3	6	E	0	spb	0·11	3
Scarborough...	29·98g	25	25	NW	2	7	E	2	cb	0·10	3
Yarmouth ...	29·95g	26	26	W	2	6	NE	6	sg	0·23	4
Ardrossan ...	30·05g	24	24	E	2	3	ENE	1	mg	—	1
Greencastle ...	30·05g	36	36	NW	1	6	SE	1	cb	—	—
Holyhead ...	30·07r	24	23	ESE	4	5	ESE	4	c	—	—
Liverpool ...	30·07r	30	29	NW	1	2	NE	2	c	—	1
Valencia ...	29·91g	33	31	ESE	6	8	ESE	6	c	—	5
Roche's Point	29·96g	34	32	SE	5	8	ESE	9	sp	0·06	5
Pembroke ...	30·03g	24	23	E	3	6	ENE	4	cm	—	2
Penzance ...	30·02r	27	25	E	5	7	E	4	c	—	3
Plymouth ...	30·02r	23	23	E	2	5	E	4	c	—	1
Portsmouth ...	30·00r	22	22	NNE	1	3	E	4	cm	—	1
Dover ...	29·96r	?28	?28	ENE	2	4	ENE	7	cs	0·04	2
London ...	29·99r	21	21	NNE	2	5	NE	9	sbm	0·02	—
Helder	29·94	18	—	S	2	—	—	—	—	—	2
Cape Gris Nez	~~29·95r~~	~~20~~	~~20~~	~~E~~	~~1~~	~~7~~	~~E~~	~~8~~	~~co~~	~~—~~	~~4~~
Brest	~~29·86r~~ ?30·06r	~~18~~ 26	~~18~~ 24	~~ESE~~ ESE	~~7~~ 4	~~8~~ 5	~~E~~ E	~~6~~ 0	~~o~~ ob	~~—~~ —	3
L'Orient ...											
Rochefort ...											
Biarritz... ...											
Corunna ...			—			—	—	—		—	—
Brussels ...			—			—	—	—		—	—
Paris			—			—	—	—		—	—
Strasbourg ...			—			—	—	—		—	—
Lyons			—			—	—	—		—	—
Toulon											
Heart'sContent (9 a.m. local time.)											

2 P.M. REPORT.

	Skudesnaes ...						—	—	—		—	
37	Thurso	29·72	34	17 6 33	W	5	—	—	9	os	—	3
33	Scarborough ...	29·96	28	15 3 28	NW	2	—	—	1	6	—	3
	Greencastle ...						—	—			—	—
	Valencia ..						—	—			—	
31	Penzance ...	29·97	35	14 8 32	SSE	3	—	—	8	co	—	3
24	London... ...	29·97	30	11 6 28	E	2	—	—	9	o	—	—
	Rochefort ...						—	—			—	

EXPLANATION OF THE COLUMNS.

BAROMETER: corrected and reduced to 32° F. at sea level. The letters r. (rising), f. (falling), s. (steady), indicate direction of motion of the mercury within last 14 hours. **THERMOMETER**: dry and wet, exposed in shade. **WIND**: **EXTREME FORCE** with its Direction, during last 24 hours. Z.—calm. **WEATHER**: b.—blue sky; c.—clouds (detached); f.—fog; h.—hail; l. lightning; m.—misty (hazy); o.—overcast (dull); p.—passing showers; q.—squally; r.—rain; s.—snow; t.—thunder. **RAIN-FALL**: (snow or hail melted), during last 24 hours. **SEA DISTURBANCE**: 0=dead calm; 9=extremely high sea.

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REMARKS.

Fri - day

Since yesterday the barometer has given way rapidly on the Norwegian coasts and to the extent of 0·4 in: in the north of Scotland while in the east of England the fall is at present slight. In the west and south of our Islands, on the contrary, a rise has taken place, amounting to 0·22 in:, at Penzance; and the reading at Holyhead is 0·25 in: higher than that at Thurso, and 0·62 in: higher than at Christiansund.

Temperature has risen again very considerably in the extreme north, but in England the fall has continued, and a hard frost is general. At Leith a temperature of 16° is reported, and the thermometer fell to the same point in London last night.

The wind has now shifted to the W^ly throughout the east of Great Britain, and to the S at Helder. On our southwestern coasts the E^ly breeze continues, having blown a gale in the south of Scotland during the night.

Aurora was seen at Thurso last night. Some snow has fallen in the north and east. The sky has cleared considerably in most places, but is again overcast in Caithness. The sea continues rough off the south of Ireland, but has gone down elsewhere.

---

2 P.M. Neither of the Irish Reports has arrived. In Great Britain the barometer has fallen generally. The W^ly wind has freshened at Thurso, and the E^ly breeze at Penzance is veering S^wly

CORRECTIONS AND ADDITIONS TO PREVIOUS REPORTS.

Reports received too late for insertion in their proper places.

Date.	Station.	Bar.	Temp.		Wind.		Extreme.		Cloud.	Weather.	Rain	Sea.
DEC.												
22ND	Rochefort	29·692	28	28	WSW	–	8	SW	4	bc	–	3
	Correction											
-"-	Roche's Point	–	–	–	–	–	8	–	–	–	–	–

Meteorological Office,

ROBERT H. SCOTT,

DIRECTOR.

PRINTED BY VINCENT BROOKS, DAY AND SON, GATE STREET, W.C

EIGHT A.M.

WEATHER REPORT. 1870.

Satur-day — December. 24th

STATIONS.	Barometer.	Thermometer. Dry.	Thermometer. Wet.	Present Wind. Direction.	Present Wind. Force. (0 to 12.)	Extreme Wind. Force. (0 to 12.)	Extreme Wind. Direction.	Amount of Cloud. (0 to 9.)	Weather.	Rain. (Inches.)	Sea Disturb. (0 to 9.)
*Christiansund	29·36	26	23	ESE	4	8	W	—	o	—	4
*Skudesnaes ...	29·41	23	23	N	2	8	NNE	—	cb	—	3
*Oxo (Christiansand)	29·37	29	26	NNW	4	6	WSW	—	b	—	3
Thurso ...	29·57g	33	32	NW	2	4	WNW	7	sc	1·05	2
Wick	29·48g	29	29	WNW	4	6	WNW	8	s	0·75	4
Nairn	29·62g	32	32	SW	4	1	SW	7	o	—	3
Aberdeen ...	29·61g	32	31	NW	2	2	NW	9	cq m	—	2
Leith	29·68g	29	29	W	3	5	W	5	bc	—	—
Shields	29·68g	23	23	W	2	3	WNW	0	b	—	2
Scarborough...	29·73g	21	21	W	2	2	NW	3	bc	—	2
Yarmouth ...	29·81g	15	15	W	2	3	W	3	sm	0·36	3
Ardrossan ...	29·73g	25	25	E	2	3	WSW	3	bm	—	1
Greencastle ...											—
Holyhead ...	29·73g	27	26	ESE	4	4	ESE	3	c	—	—
Liverpool ...	29·77g	30	29	E	2	1	E	4	c	—	1
Valencia ...	29·34g	37	36	SSE	9	11	SSE	8	osq	0·19	8
Roche's Point	29·60g	37	36	S	9	9	S	9	o	—	7
Pembroke ...	29·61g	36	33	SSE	7	7	SSE	9	co	—	4
Penzance ...	29·63g	35	32	SE	9	7	SSE	9	o	—	9
Plymouth ...	29·66g	35	33	SE	5	5	SE	9	co	—	1
Portsmouth ...	29·77g	31	30	SSE	2	1	NE	6	c	—	2
Dover ...	29·81g	27	27	S	3	2	NE	3	sb	0·22	2
London ...	29·82g	18	18	NE	1	4	NE	9	cbg	—	—
Helder	29·75	24	—	—	5	—	—	—	—	—	4
Cape Gris Nez											
Brest											
L'Orient ...											
Rochefort ...											
Biarritz... ...											
Corunna ...			—			—	—	—		—	
Brussels ...			—			—	—	—		—	—
Paris			—			—	—	—		—	—
Strasbourg ...			—			—	—	—		—	—
Lyons			—			—	—	—		—	—
Toulon... ...											
Heart'sContent (9 a.m. local time.)											

2 P.M. REPORT.

Skudesnaes ...						—	—	—		—	
Thurso						—	—			—	
Scarborough ...						—	—			—	
Greencastle ...						—	—			—	—
Valencia ..						—	—			—	
Penzance ...						—	—			—	
London... ...						—	—			—	—
Rochefort ...						—	—			—	

EXPLANATION OF THE COLUMNS.

BAROMETER: corrected and reduced to 32° F. at sea level. The letters r. (rising), f. (falling), s. (steady), indicate direction of motion of the mercury within last 14 hours. **THERMOMETER**: dry and wet, exposed in shade. **WIND**: **EXTREME FORCE** with its Direction, during last 24 hours. Z.—calm. **WEATHER**: b.—blue sky; c.—clouds (detached); f.—fog; h.—hail; l. lightning; m.—misty (hazy); o.—overcast (dull); p.—passing showers; q.—squally; r.—rain; s.—snow; t.—thunder. **RAIN-FALL**: (snow or hail melted), during last 24 hours. **SEA DISTURBANCE**: 0=dead calm; 9=extremely high sea.

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* The Norwegian stations do not report rainfall, and their "extreme" wind is an observation taken at 8 p.m.

REMARKS.

Satur-day

Since yesterday the barometer has fallen considerably on all our coasts, but during the night the change has been most rapid in the south of Ireland. Barometrical depression appears to exist to the southwest of our Islands, and the reading at Valencia is 0·48 in less than that in London.

In our Islands temperature has risen considerably except in the east of England, where it has again fallen, and is very low. At Yarmouth the reading (15°) is 22° lower than the south of Irela

A stiff S and SE gale has set in at our south-west stations during the night, and the wind has veered into south in the English Channel also. On our east coast however moderate W to NW breezes continue.

Heavy snow has fallen in the extreme north of Scotland, but very little elsewhere. The sky is cloudy except in the east. The sea is very high off the southwest coasts, nearly calm elsewhere.

Warnings issued to our west and south coasts.

CORRECTIONS AND ADDITIONS TO PREVIOUS REPORTS.

Reports received too late for insertion in their proper places.

Date.	Station.	Bar.	Temp.		Wind.		Extreme.		Cloud.	Weather.	Rain.	Sea
Dec.												
22.	C. Gris-Nez	29·86r	18	18	ESE	7	8	E	6	0	–	4
"	Biarritz	29·55r	41	41	SW	3	7	W	9	R0	0·35	7
23.	C. Gris-Nez	29·95r	20	20	E	1	7	E	8	C0	–	1

Meteorological Office,

ROBERT H. SCOTT,

DIRECTOR.

PRINTED BY VINCENT BROOKS, DAY AND SON, GATE STREET, W.C

EIGHT A.M.

WEATHER REPORT. 1870. December 25th

Sunday

STATIONS.	Barometer.	Thermometer. Dry.	Thermometer. Wet.	Present Wind. Direction.	Present Wind. Force. (0 to 12.)	Extreme Wind. Force. (0 to 12.)	Extreme Wind. Direction.	Amount of Cloud. (0 to 9.)	Weather.	Rain. (Inches.)	Sea Disturb. (0 to 9.)
*Christiansund	29·69	24	21	ESE	6	6	ESE	—	b	—	4
*Skudesnaes ...	29·62	29	26	E	4	2	ESE	—	cb	—	3
*Oxo (Christiansand)	29·62	28	21	NNE	4	4	NNW	—	bc	—	2
Thurso 9·30 a.m.	29·77r	38	35	N	4	4	NNW	5	c	0·26	3
Wick	29·80r	37	34	N	4	4	WNW	6	sc	0·06	4
Nairn	29·80r	27	27	W	1	1	SW	6	spc	0·09	2
Aberdeen 9 a.m.	29·76r	32	32	NW	2	2	WNW	9	os	0·02	2
Leith	29·76r	26	26	W	3	3	W	1	cf	0·01	—
Shields	29·73r	26	26	WNW	2	4	W	2	b	—	2
Scarborough 9·10 a.m.	29·74r	29	29	NNW	2	2	W	3	cb	—	2
Yarmouth ...	29·70s	14	14	W	1	3	W	4	m	—	3
Ardrossan ...	29·83r	22	22	E	1	2	NW	1	asb	0·06	1
Greencastle ...											—
Holyhead ...	29·81r	32	31	ESE	4	4	ESE	3	c	—	—
Liverpool ..											
Valencia ...	29·70r	37	35	E	5	10	SSE	4	sc	0·05	3
Roche's Point	29·76r	34	32	NE	3	9	S	5	oc	0·04	5
Pembroke ...	29·74r	28	26	ENE	3	7	ESE	3	oc	—	2
Penzance ...	29·80r	31	30	E	6	9	SSE	3	c	—	8
Plymouth ...	29·76r	28	28	NE	3	6	SE	1	ob	—	1
Portsmouth ...	29·73s	23	23	NE	1	3	SE	5	om	—	1
Dover ...	29·72f	24	24	NW	2	2	NNE	2	sb	—	1
London ...	29·77r	15	15	NNE	1	2	NE	9	bf	—	—
Helder			—			—	—	—	—	—	
Cape Gris Nez	29·67f	18	18	SE	3	3	SSE	2	b	—	2
Brest											
L'Orient ...											
Rochefort ...	29·19f	19	19	NW	7	7	ESE	0	b	—	4
Biarritz... ...											
Corunna ...			—			—	—	—		—	
Brussels ...			—			—	—	—		—	—
Paris			—			—	—	—		—	—
Strasbourg ...			—			—	—	—		—	—
Lyons			—			—	—	—		—	—
Toulon... ...											
Heart's Content (9 a.m. local time.)											

2 P.M. REPORT.

Skudesnaes ...						—	—	—		—	
Thurso						—	—			—	
Scarborough ...						—	—			—	
Greencastle ...						—	—			—	—
Valencia ..						—	—			—	
Penzance ...						—	—			—	
London... ...						—	—			—	—
Rochefort ...						—	—			—	

EXPLANATION OF THE COLUMNS.

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REMARKS.

day

CORRECTIONS AND ADDITIONS TO PREVIOUS REPORTS.

Reports received too late for insertion in their proper places.

Station.	Bar.	Temp.		Wind.		Extreme.		Cloud.	Weather.	Rain.	Sea

Meteorological Office,

ROBERT H. SCOTT,

DIRECTOR.

TED BY VINCENT BROOKS, DAY AND SON, GATE STREET, W.C.

EIGHT A.M.

WEATHER REPORT. 1870.

Mon-day — December. 26th

STATIONS.	Barometer.	Thermometer. Dry.	Thermometer. Wet.	Present Wind. Direction.	Present Wind. Force. (0 to 12.)	Extreme Wind. Force. (0 to 12.)	Extreme Wind. Direction.	Amount of Cloud. (0 to 9.)	Weather.	Rain. (Inches.)	Sea Disturbance (0 to 9)
*Christiansund								—		—	
Skudesnaes ...								—		—	
*Oxo (Christiansand)								—		—	
Thurso ...	30·06 r	33	32	L	0	5	NNE	9	bs	0·07	1
Wick	30·06 r	25	25	NNW	3	4	N	7	c	—	3
Nairn	30·07 r	29	29	NNE	1	4	NE	2	cb	—	2
Aberdeen ...	30·09 r	26	25	NNW	1	3	NW	1	cm	0·30	3
Leith	30·03 r	34	31	NE	5	5	NE	2	b	—	—
Shields	29·97 r	37	34	E	7	6	NE	5	pLc	0·02	4
Scarborough...	29·96 r	36	34	NE	5	? 3	N	9	s	0·64	4
Yarmouth ...	29·83 r	34	34	NE	3	3	E	6	m	—	4
Ardrossan ...	30·10 r	27	27	E	1	1	SE	1	bm	—	1
Greencastle ...											—
Holyhead ...	29·98 r	38	37	NE	4	3	NNE	—	o	0·05	—
Liverpool ...	29·93 r	32	31	N	1	2	N	0	cb	—	4
Valencia ...	30·10 r	33	31	ENE	3	5	E	0	b	—	1
Roche's Point	29·98 r	33	32	NNE	3	4	?NE	2	cb	—	3
Pembroke ...	29·89 r	35	32	NNE	2	3	NE	5	sc	0·04	1
Penzance ...	29·91 r	36	34	NE	3	4	E	4	shc	—	3
Plymouth ...	29·88 r	28	28	NE	2	3	NE	—	bc	—	1
Portsmouth ...	29·85 r	29	29	N	1	1	NNE	9	co	—	1
Dover ...	29·76 r	33	33	NE	2	3	NNE	4	sc	0·05	1
London ...	29·83 r	30	30	NNE	2	4	NE	9	bg	—	—
Helder	29·80	29	—	ENE	3	—	—	—	—	—	2
Cape Gris Nez											
Brest											
L'Orient ...											
Rochefort ...											
Biarritz... ...											
Corunna ...			—			—	—	—		—	—
Brussels ...			—			—	—	—		—	—
Paris			—			—	—	—		—	—
Strasbourg ...			—			—	—	—		—	—
Lyons			—			—	—	—		—	—
Toulon											
Heart'sContent (9 a.m. local time.)											

2 P.M. REPORT.

Skudesnaes ...						—	—	—		—	
Thurso						—	—			—	
Scarborough ...						—	—			—	
Greencastle ...						—	—			—	
Valencia ..						—	—			—	
Penzance ...						—	—			—	
London... ...						—	—			—	
Rochefort ...						—	—			—	

EXPLANATION OF THE COLUMNS.

BAROMETER: corrected and reduced to 32° F. at sea level. The letters r. (rising), f. (falling), s. (steady), indicate direction of motion of the mercury within last 14 hours. **THERMOMETER**: dry and wet, exposed in shade. **WIND**: **EXTREME FORCE** with its Direction, during last 24 hours. L.—calm. **WEATHER**: b.—blue sky; c.—clouds (detached); f.—fog; h.—hail; l. lightning; m.—misty (hazy); o.—overcast (dull); p.—passing showers; q.—squally; r.—rain; s.—snow; t.—thunder. **RAIN-FALL**: (snow or hail melted), during last 24 hours. **SEA DISTURBANCE**: 0=dead calm; 9=extreme high sea.

N.B.—The wind is said to "veer" when its direction changes *with the sun*, and to "back" when it shifts in the opposite direction.

* The Norwegian stations do not report rainfall, and their "extreme" wind is an observation taken at 8 p.m.

REMARKS.

Monday

A general recovery in pressure has taken place since Saturday. The rise has been greatest at the western stations. The readings at Valencia and Ordrevan now exceed that at Dover by 0·34 in.

Temperature was lower yesterday in the S. but this morning has again increased; the weather, however, continues cold at all stations.

The SE ½ gale noticed in the SW on Saturday subsided without advancing beyond Penzance; the wind has now shifted to NE everywhere and is light.

Snow has fallen at a few stations, but the weather is generally fine. Aurora last night at Thurso. Sea calm.

CORRECTIONS AND ADDITIONS TO PREVIOUS REPORTS.

Reports received too late for insertion in their proper places.

Date.	Station.	Bar.	Temp.		Wind.		Extreme.		Cloud.	Weather.	Rain.	Sea
Dec												
24.	Greencastle	29·702	33	32	S	1	2	SSE	4	bc	—	
"	C. Gris-Nez	29·772	16	16	S	3	3	S	1	sb	0·24	2

Meteorological Office,

ROBERT H. SCOTT,

DIRECTOR.

PRINTED BY VINCENT BROOKS, DAY AND SON, GATE STREET, W.C.

EIGHT A.M.

WEATHER REPORT. 1870.

Sun-day — December 4th

STATIONS.	Barometer.	Thermometer. Dry.	Thermometer. Wet.	Present Wind. Direction.	Present Wind. Force. (0 to 12.)	Extreme Wind. Force. (0 to 12.)	Extreme Wind. Direction.	Amount of Cloud. (0 to 9.)	Weather.	Rain. (Inches.)	Sea Disturb (0 to 9.)
*Christiansund	29·89	33	32	WSW	6	6	WNW	—	oc	—	6
*Skudesnaes ...	29·98	31	–	NE	4	4	ESE	—	ob	—	2
*Oxo (Christiansand)	29·99	30	28	WSW	2	4	NNW	—	bo	—	1
Thurso ...	29·99g	17	10	S	1	1	SSW	0	gb	0·11	1
Wick	29·99g	20	20	WNW	3	3	WNW	5	c	–	3
Nairn											
Aberdeen ...	30·06g	16	16	W	1	1	NNW	1	bmo	–	3
Leith	30·03g	25	25	W	1	2	W	0	bg	–	—
Shields	30·00g	30	30	WNW	2	7	E	8	co	—	5
Scarborough...	30·02g	34	32	E	2	4	NE	9	co	–	3
Yarmouth ...	29·98h	30	30	E	4	6	NNE	6	so	0·14	6
Ardrossan ...	30·03g	21	21	ENE	3	1	E	1	cm	—	2
Greencastle ...											—
Holyhead ...	29·94g	30	29	ENE	3	3	NNE	?6	o	-	—
Liverpool ...	29·98 -	31	30	ESE	?	1	NE	4	cg	–	1
Valencia ...	29·71g	40	38	SSE	4	3	E	7	bc		
Roche's Point	29·80g	39	38	SSE	6	6	SSE	8	bo	–	4
Pembroke ...	29·98g	27	26	E	4	3	NE	3	bc	—	1
Penzance ...	29·84g	30	27	E	4	3	NE	3	c	–	3
Plymouth ...	29·84g	32	31	E	2	3	ENE	9	cs	–	0
Portsmouth ...	29·92g	26	26	E	0	3	N	5	cmo	—	0
Dover ...	29·90g	30	30	E	5	2	NE	5	sg	0·08	4
London ...	29·94g	25	25	NE	2	6	E	9	so	0·01	—
Helder	29·97	28	—	ENE	6	—	—	—	—	—	4
Cape Gris Nez	29·88g	19	19	E	5	3	E	4	bc	–	3
Brest											
L'Orient ...											
Rochefort ...											
Biarritz... ...											
Corunna ...			—			—	—	—		—	
Brussels ...			—			—	—	—		—	—
Paris			—			—	—	—		—	—
Strasbourg ...			—			—	—	—		—	—
Lyons			—			—	—	—		—	—
Toulon... ...											
Heart'sContent (9 a.m. local time.)											

2 P.M. REPORT.

Skudesnaes ...						—	—	—		—	
Thurso						—	—			—	
Scarborough ...						—	—			—	—
Greencastle ...						—	—			—	
Valencia ..						—	—			—	
Penzance ...						—	—			—	
London... ...						—	—			—	—
Rochefort ...						—	—			—	

EXPLANATION OF THE COLUMNS.

BAROMETER: corrected and reduced to 32° F. at sea level. The letters r. (rising), f. (falling), s. (steady), indicate direction of motion of the mercury within last 14 hours. **THERMOMETER**: dry and wet, exposed in shade. **WIND**: **EXTREME FORCE** with its Direction, during last 24 hours. Z.—calm. **WEATHER**: b.—blue sky; c.—clouds (detached); f.—fog; h.—hail; l. lightning; m.—misty (hazy); o.—overcast (dull); p.—passing showers; q.—squally; r.—rain; s.—snow; t.—thunder. **RAIN-FALL**: (snow or hail melted), during last 24 hours. **SEA DISTURBANCE**: 0=dead calm; 9=extremely high sea.

N.B.—The wind is said to "veer" when its direction changes *with the sun*, and to "back" when it shifts in the opposite direction.

* The Norwegian stations do not report rainfall, and their "extreme" wind is an observation taken at 8 p.m.

REMARKS.

Tues- day

Since yesterday the barometer has fallen in the west of the British Isles, and during the night the fall has extended to all our stations. Readings are now lowest in Ireland, that at Valencia being 0·35 in. less than that at Aberdeen.

Temperature also has fallen at all British Stations, especially in the north, where it is very low (12° at Thurso). In the south of Ireland however, a rise is reported.

The wind has shifted to the S^ward in Ireland, and to the W^ward in the northeast of Great Britain, but still continues moderate generally.

A little snow has fallen in the south-east of England. The sky is cloudy generally. The sea is rather high at Yarmouth, moderate to calm elsewhere.

CORRECTIONS AND ADDITIONS TO PREVIOUS REPORTS.

Reports received too late for insertion in their proper places.

Date.	Station.	Bar.	Temp.		Wind.		Extreme.		Cloud.	Weather.	Rain.	Sea.
Dec. 26.	Christiansund	29·86	28	27	SSW	6	4	ESE	–	bos	–	5
"	Stadesmoes	30·04	21	19	ENE	2	4	ENE	–	cb	–	2
"	Oscö	30·01	22	20	NNE	6	6	NNE	–	osc	–	5
	Gradenacht	30·11 n.	31	31	W	1	1	W	3	c	–	–
	Cap Gris Nez	29·952	28	28	E	3	4	SE	1	b	–	1

Meteorological Office,

ROBERT H. SCOTT,

DIRECTOR.

PRINTED BY VINCENT BROOKS, DAY AND SON, GATE STREET, W.C.

EIGHT A.M.

WEATHER REPORT. 1870.

Wednes-day — *December. 28th*

STATIONS.	Barometer.	Thermometer. Dry.	Thermometer. Wet.	Present Wind. Direction.	Present Wind. Force. (0 to 12.)	Extreme Wind. Force. (0 to 12.)	Extreme Wind. Direction.	Amount of Cloud. (0 to 9.)	Weather.	Rain. (Inches)	Sea Disturb. (0 to 9.)
*Christiansund	30·01	—	—	SSW	4	4	WSW	—	c	—	2
*Skudesnaes ...	30·05	26	24	ENE	4	0	Z	—	b	—	2
*Oxo (Christiansand)	29·99	23	22	NNW	4	4	N	—	b	—	1
Thurso ...	30·10 r	10	8	S	2	2	S	0	b	—	1
Wick	30·08 r	11	10	WNW	3	3	WNW	4	c	—	2
Nairn	30·12 r	20	20	W	1	1	W	6	b c	—	1
Aberdeen ...	30·06 r	11	10	W NW	2	2	N	8	c m o	—	4
Leith	30·03 r	33	31	NE	2	1	W	6	f c	0·03	—
Shields	29·97 s	30	30	NNW	2	4	SE	3	c	—	3
Scarborough...	29·96 r	35	33	WNW	1	3	SE	9	o	—	3
Yarmouth ...	29·88 r	33	33	ENE	3	7	NE	4	s c	0·33	5
Ardrossan ...	30·11 r	31	31	ENE	2	3	NE	5	c	—	1
Greencastle ...											—
Holyhead ...	29·98 r	31	30	NNE	3	3	NNE	3	c	—	—
Liverpool ..	29·95 r	31	30	E	1	2	NE	6	c f	—	1
Valencia ...	29·92 r	33	30	E	3	5	ESE	5	s c	—	3
Roche's Point	29·88 r	33	32	NE	3	6	SSE	7	o p s	—	4
Pembroke ...	29·88 s	38	38	NE	4	5	E	9	c m	—	1
Scilly											
Penzance ...	29·82 r	30	29	ENE	5	5	SE	6	o c	—	4
Plymouth ...	29·78 f	30	27	E	2	3	E	9	c s	—	1
Portsmouth ...	29·81 f	28	28	NE	1	3	NE	9	o	0·01	1
Dover ...	29·79 s	32	30	ESE	4	6	ENE	5	s q c	0·30	3
London ...	29·82 s	31	30	E	2	5	ENE	9	s o	0·20	—
Helder	29·86	28	—	ENE	—	—		—	—	—	—
Cape Gris Nez	29·77 f	23	23	E	7	7	E	9	s o	0·08	5
Brest											
L'Orient ...	29·65 f	23	23	E	5	5	ESE	9	b o	—	3
Rochefort ...											
Biarritz... ...							—				
Corunna ...			—			—	—	—		—	—
Brussels ...			—			—	—	—		—	—
Paris			—			—	—	—		—	—
Strasbourg ..			—			—	—	—		—	—
Lyons			—			—		—		—	—
Toulon... ...											
Heart'sContent (9 a.m. local time.)											

2 P.M. REPORT.

Skudesnaes ...						—	—	—		—	
Thurso	30·14	14	11	S	2	—	—	0	b	—	1
Scarborough ...	29·96	38	35	ENE	5	—	—	7	c	—	4
Greencastle ...						—	—			—	—
Valencia ..	30·01	37	34	ESE	3	—	—	4	c	—	3
Penzance ...	29·91	32	31	ENE	5	—	—	6	c	—	4
London... ...	29·88	35	33	ENE	2	—	—	9	c o	—	—
Rochefort ...						—	—			—	

EXPLANATION OF THE COLUMNS.

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REMARKS.

Wednesday

The barometrical depression noticed yesterday has advanced along the south of England, and has been succeeded during the night by a rise which is most marked in the south of Ireland, but has not yet affected the Channel stations. In the north there is little change. Readings are now lowest in the south-east, that at Cape Gris Nez being 0·45 in less than that at Deaum.

Temperature has fallen a little in the north of Scotland, and in Ireland, but rises elsewhere. It is now very low in the extreme north of Scotland.

Winds have backed to E and NE in Ireland, but are little changed elsewhere. They blew freshly from the E^ly at southern stations last night, but this morning are light to moderate generally.

Aurora was seen at Thurso last night. Snow has fallen at several stations. The sky is cloudy generally. The sea is rather disturbed in the south-east, moderate to calm elsewhere.

21.h. Pressure is increasing everywhere.
A moderate ENE wind is reported from Scarboro'.

CORRECTIONS AND ADDITIONS TO PREVIOUS REPORTS.

Reports received too late for insertion in their proper places.

Date.	Station.	Bar.	Temp.		Wind.		Extreme.		Cloud.	Weather	Rain.	Sea
DEC.												
7	Greencastle	29·938	35	32	S	3	3	S	3	b c	–	1
	Rochefort	29·872	22	21	N	4	5	N	0	b	–	3
	Biarritz	29·829	28	26	SE	3	3	E	3	c	–	5

Meteorological Office,
ROBERT H. SCOTT,
DIRECTOR.

PRINTED BY VINCENT BROOKS, DAY AND SON, GATE STREET, W.C.

EIGHT A.M.

WEATHER REPORT. 1870. December 29th

Thurs-day

STATIONS.	Barometer.	Thermometer. Dry.	Thermometer. Wet.	Present Wind. Direction.	Present Wind. Force. (0 to 12.)	Extreme Wind.* Force. (0 to 12.)	Extreme Wind.* Direction.	Amount of Cloud. (0 to 9.)	Weather.	Rain. (Inches)	Sea Disturb. (0 to 9.)
*Christiansund	30·14	28	29	W	2	4	NNW	—	o	—	—
*Skudesnaes ...	29·96	26	26	ENE	2	0	Z	—	c	—	2
*Oxo (Christiansand)	—	28	26	NNE	4	4	—	—	b	—	—
Thurso ...	30·19r	28	25	Z	0	2	WSW	2	cb	—	1
Wick	30·20r	25	25	WNW	3	3	WNW	5	c	—	2
Nairn	30·22r	26	26	W	1	1	W	8	co	—	2
Aberdeen ...	30·19r	30	29	NNW	2	2	NNW	6	oc	—	3
Leith	30·19r	33	31	N	2	4	ENE	8	o	0·05	—
Shields	30·11r	30	30	NW	2	4	ENE	6	cm	—	2
Scarborough...	30·11r	34	32	ENE	2	5	ENE	7	c	—	3
Yarmouth ...	30·03r	33	33	E	4	5	SE	4	sc	0·28	5
Ardrossan ...	30·22r	32	32	N	1	2	NE	5	sc	—	1
Greencastle ...											—
Holyhead ...	30·12r	30	29	ENE	4	4	ENE	8	c	—	—
Liverpool ..	30·12r	35	33	NE	1	2	NW	6	cf	—	1
Valencia ...	30·15r	35	33	E	2	3	ESE	7	bc	—	6
Roche's Point	30·12r	34	33	NE	3	4	NE	9	sp	0·03	4
Pembroke ...	30·06r	33	31	NE	2	4	ENE	9	cm	—	1
Scilly											
Penzance ...	30·06r	33	31	ENE	4	5	ENE	9	co	—	3
Plymouth ...	30·01r	32	32	NE	3	3	NE	9	o	—	1
Portsmouth ...	29·99r	28	28	NNE	1	2	NE	8	co	—	1
Dover ...	29·95r	31	29	E	3	3	NE	3	cb	—	3
London ...	30·01r	28	28	ENE	2	3	ENE	8	sbc	0·02	—
Helder	30·03	22	—	ENE	2	—		—	—	—	2
Cape Gris Nez	29·93r	25	25	E	5	5	E	4	oc	—	3
Brest											
L'Orient ...											
Rochefort ...											
Biarritz... ...							—				
Corunna ...			—			—	—	—		—	—
Brussels ...			—			—	—	—		—	—
Paris			—			—	—	—		—	—
Strasbourg ...			—			—	—	—		—	—
Lyons			—			—		—		—	—
Toulon... ...											
Heart'sContent (9 a.m. local time.)											

2 P.M. REPORT.

Skudesnaes ...						—	—	—		—	
Thurso						—	—			—	
Scarborough ...						—	—			—	—
Greencastle ...						—	—			—	
Valencia ..						—	—			—	
Penzance ...						—	—			—	
London... ...						—	—			—	—
Rochefort ...						—	—			—	

EXPLANATION OF THE COLUMNS.

BAROMETER: corrected and reduced to 32° F. at sea level. The letters r. (rising), f. (falling), s. (steady), indicate direction of motion of the mercury within last 14 hours. **THERMOMETER**: dry and wet, exposed in shade. **WIND**: **EXTREME FORCE** with its Direction, during last 24 hours. Z.—calm. **WEATHER**: b.—blue sky; c.—clouds (detached); f.—fog; h.—hail; l. lightning; m.—misty (hazy); o.—overcast (dull); p.—passing showers; q.—squally; r.—rain; s.—snow; t.—thunder. **RAIN-FALL**: (snow or hail melted), during last 24 hours. **SEA DISTURBANCE**: 0=dead calm; 9=extremely high sea.

N.B.—The wind is said to "veer" when its direction changes *with the sun*, and to "back" when it shifts in the opposite direction.

* The Norwegian stations do not report rainfall, and their "extreme" wind is an observation taken at 8 p.m.

REMARKS.

Thurs-day

Since yesterday the barometer has risen at all our stations, but it has fallen a little at Hendesnaes. Pressure is now uniform, the reading at Cape Gris Nez being only 0·29 in. less than those at Lairn and Ardrossan.

Temperature has risen generally, especially in the extreme north of Scotland. At Thurso the change amounts to 18° since yesterday.

Winds are not much changed, being E by N and NE by N in the south and south-west, but blowing from points between N and NW in the north and north-east. They are light to moderate in force.

The sky is cloudy generally, and snow has fallen in several places. The sea is rather high at Valencia, moderate to calm elsewhere.

CORRECTIONS AND ADDITIONS TO PREVIOUS REPORTS.

Reports received too late for insertion in their proper places.

Date.	Station.	Bar.	Temp.		Wind.		Extreme.		Cloud.	Weather	Rain.	Sea.
Decr 28th	L'Orient	29·65f	23	23	E	5	5	ESE	9	bo	—	3
	Correction											
—	Roche's Point	—	—	32	—	—	—	—	—	—	—	—

Meteorological Office,

ROBERT H. SCOTT,

DIRECTOR.

PRINTED BY VINCENT BROOKS, DAY AND SON, GATE STREET, W.C.

EIGHT A.M.

WEATHER REPORT. 1870. December 30th

Fri-day

STATIONS.	Barometer.	Thermometer. Dry.	Thermometer. Wet.	Present Wind. Direction.	Present Wind. Force. (0 to 12.)	Extreme Wind. Force. (0 to 12.)	Extreme Wind. Direction.	Amount of Cloud. (0 to 9.)	Weather.	Rain. (Inches)	Sea Disturbance (0 to 9)
*Christiansund	30·29	36	34	WSW	2	4	WSW	—	soc	—	4
*Skudesnaes ...	30·35	23	21	ENE	2	0	Z	—	b	—	2
*Oxo (Christiansand)	30·33	19	18	NNW	4	4	NNW	—	b	—	1
Thurso ...	30·25r	22	19	SSE	1	3	NNW	4	om	—	1
Wick	30·27r	33	31	SSW	4	3	WNW	8	co	—	3
Nairn	30·27r	26	26	W	1	1	W	2	osb	0·15	1
Aberdeen ...	30·32r	34	33	SE	1	2	NNW	9	co	0·01	2
Leith	30·27r	35	33	E	2	2	WNW	8	co	0·07	—
Shields... ...	30·21r	33	33	SE	4	3	NNE	8	cs	—	3
Scarborough...	30·23r	31	30	SW	1	2	N	8	so	0·42	3
Yarmouth ...	30·20r	30	30	E	4	5	NE	6	c	—	5
Ardrossan ...	30·27r	34	32	ENE	2	2	SE	7	cf	—	1
Greencastle ...											—
Holyhead ...	30·17r	31	30	ENE	4	4	ENE	6	o	0·03	—
Liverpool ...	30·18f	32	31	E	1	2	NE	5	cf	—	1
Valencia ...	30·27r	29	27	E	3	3	E	0	b	—	2
Roche's Point	30·21r	31	31	NNE	4	4	NNE	1	b	—	3
Pembroke ...	30·10f	34	34	Z	0	4	NE	7	cps	0·04	0
Scilly											
Penzance ...	30·18r	30	30	Z	0	5	E	9	cs	—	1
Plymouth ...		28	28	N	1	3	NE	9	bm	—	1
Portsmouth ...	30·15r	24	24	NE	1	3	NNE	7	bm	0·01	1
Dover ...	30·11r	28	28	E	2	3	E	5	bc	—	2
London ...	30·15r	26	25	NE	2	3	NE	8	csm	0·01	—
Helder	30·21	24	—	ENE	6	—		—	—	—	4
Cape Gris Nez	30·092	20	20	E	5	5	E	9	bo	—	3
Brest											
L'Orient ...											
Rochefort ...	30·012	19	19	N	4	5	N	0	sb	0·04	3
Biarritz... ...							—				
Corunna ...			—			—	—	—		—	—
Brussels ...			—			—	—	—		—	—
Paris			—			—	—	—		—	—
Strasbourg ...			—			—	—	—		—	—
Lyons			—			—		—		—	
Toulon... ...											
Heart'sContent (9 a.m. local time.)											

2 P.M. REPORT.

Skudesnaes ...						—	—	—		—	1
Thurso	30·25	28	24	S	2	—	—	2	cb	—	4
Scarborough ...	30·28	31	30	SW	1	—	—	5	sc	—	—
Greencastle ...						—	—			—	3
Valencia ..	30·30	34	31	E	3	—	—	0	cb	—	4
Penzance ...	~~30·30~~	~~34~~	~~31~~	~~E~~	~~3~~	~~—~~	~~—~~	~~0~~	~~cb~~	~~—~~	—
London... ...	30·17	30	30	NE	3	—	—	9	os	—	
Rochefort ...						—	—			—	

EXPLANATION OF THE COLUMNS.

BAROMETER: corrected and reduced to 32° F. at sea level. The letters r. (rising), f. (falling), s. (steady), indicate direction of motion of the mercury within last 14 hours. **THERMOMETER**: dry and wet, exposed in shade. **WIND**: **EXTREME FORCE** with its Direction, during last 24 hours. Z.—calm. **WEATHER**: b.—blue sky; c.—clouds (detached); f.—fog; h.—hail; l. lightning; m.—misty (hazy); o.—overcast (dull); p.—passing showers; q.—squall; r.—rain; s.—snow; t.—thunder. **RAIN-FALL**: (snow or hail melted), during last 24 hours. **SEA DISTURBANCE**: 0=dead calm; 9=extreme high sea.

N.B.—The wind is said to "veer" when its direction changes *with the sun*, and to "back" when it shifts in the opposite direction.

* The Norwegian stations do not report rainfall, and their "extreme" wind is an observation taken at 8 p.m.

REMARKS.

Fri-day

The barometer has risen somewhat on all our coasts since yesterday, and is rather high generally, especially in the North and west. The reading at Dover is 0·21 in. less than that at Aberdeen.

Temperature has fallen slightly in the south of our Islands, and risen in the north-east. In the south of Norway it has fallen considerably.

The winds continue light to moderate. In Scotland they are variable, but are generally E^ly and NE^ly on our other coasts, with calms in the south-west of England.

Some snow has fallen in places. The sky is clear in the south of Ireland, but elsewhere very cloudy. The sea is rather rough at Yarmouth — moderate to calm generally.

2 P.M. No important Change.

CORRECTIONS AND ADDITIONS TO PREVIOUS REPORTS.

Reports received too late for insertion in their proper places.

Date.	Station.	Bar.	Temp.		Wind.		Extreme.		Cloud.	Weather	Rain.	Sea
Decr 29th	Brest	29·97r	31	31	ESE	1	4	NE	9	o	—	4

Meteorological Office,

ROBERT H. SCOTT,

DIRECTOR.

PRINTED BY VINCENT BROOKS, DAY AND SON, GATE STREET, W.C.

EIGHT A.M.

WEATHER REPORT. 1870.

Saturday — December 31st

STATIONS.	Barometer.	Thermometer. Dry.	Thermometer. Wet.	Present Wind. Direction.	Present Wind. Force. (0 to 12.)	Extreme Wind. Force. (0 to 12.)	Extreme Wind. Direction.	Amount of Cloud. (0 to 9.)	Weather.	Rain. (Inches)	Sea Disturbance (0 to 9)
*Christiansund	30·15	32	30	ESE	4	4	SSW	—	bc	—	4
*Skudesnaes ...	30·38	32	30	—	4	2	ENE	—	b	—	0
*Oxo (Christiansand)	30·41	15	14	NNW	2	4	NNW	—	b	—	2
Thurso ...	30·03 g	30	28	S	4	2	S	3	bc	—	2
Wick	30·08 g	35	35	S	6	5	SSW	6	c	—	3
Nairn	30·10 g	32	30	SW	4	1	W	1	b	—	2
Aberdeen ...	30·24 g	24	24	SW	1	1	SE	1	cb	—	2
Leith	30·27 g	29	27	W	2	2	E	2	oc	—	—
Shields	30·32 g	19	19	W	2	3	W	—	mz	0·27	3
Scarborough...	30·36 r	25	24	WSW	1	2	S	8	co	0·15	2
Yarmouth ...	30·33 r	32	32	ESE	3	6	ENE	4	c	—	4
Ardrossan ...	30·23 g	37	34	SSW	4	1	ENE	7	mc	—	3
Greencastle ...											—
Holyhead ...	30·31 s	30	28	NNE	3	3	NNE	3	c	—	—
Liverpool ...	30·33 r	26	25	NE	1	1	NE	6	g	—	1
Valencia ...	30·18 g	36	35	SE	5	3	E	8	or	0·04	3
Roche's Point	30·25 g	35	33	SSE	4	4	SSE	7	bc	—	3
Pembroke ...	30·31 s	23	22	ENE	2	4	E	3	cm	—	1
Scilly											
Penzance ...	30·32 r	29	27	E	4	3	E	3	c	—	2
Plymouth ...	30·32 r	19	19	N	1	2	E	0	og	—	1
Portsmouth ...	30·30 r	24	24	NNE	2	3	NE	6	omo	—	1
Dover ...	30·27 r	28	28	ESE	2	4	E	3	cb	—	2
London ...	30·31 r	19	18	ENE	1	3	NE	9	csno	—	—
Helder	30·34	27	—	ENE	3	—		—	—	—	2
Cape Gris Nez	30·242	19	19	ESE	5	5	E	7	o	—	3
Brest											
L'Orient ...											
Rochefort ...	30·26 r	22	22	N	4	4	N	9	co	—	3
Biarritz... ...							—				
Corunna ...			—			—	—	—		—	—
Brussels ...			—			—	—	—		—	—
Paris			—			—	—	—		—	—
Strasbourg ...			—			—	—	—		—	—
Lyons			—			—		—		—	—
Toulon... ...											
Heart'sContent (9 a.m. local time.)											

2 P.M. REPORT.

Skudesnaes ...						—	—	—		—	
Thurso	29·87	33	31	S	5	—	—	8	o	—	3
Scarborough ...	30·29	26	26	WSW	1	—	—	1	cb	—	2
Greencastle ...						—	—			—	—
Valencia ..	30·07	37	37	SSE	5	—	—	8	s	—	4
Penzance ...						—	—			—	—
London... ...	30·30	30	28	NE	1	—	—	9	o	—	
Rochefort ...						—	—			—	

EXPLANATION OF THE COLUMNS.

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N.B.—The wind is said to "veer" when its direction changes *with the sun*, and to "back" when it shifts in the opposite direction.

* The Norwegian stations do not report rainfall, and their "extreme" wind is an observation taken at 8 p.m.

REMARKS.

Saturday.

During the past night the barometer has commenced falling rather briskly in the north and northwest of our Islands, while over England it has continued rising since yesterday morning. The highest readings are now over the North Sea, and that at Aoos exceeds by 0·38 in. that at Thurso.

Temperature has changed irregularly, and is very low again in several parts of England. In Ireland and the northwest of Scotland a rise is reported, and Ardrossan is 18° warmer than Plymouth, London and Shields.

Light E ½ breezes continue in the southern parts of England, but in the south of Ireland they have veered to SE. At the same time a rather fresh S ½ breeze has set in in Scotland, with W ½ winds in the north of England.

Rain has commenced falling at Valencia. The amount of cloud is variable, but fog and mist prevail in England.

The sea is moderate to calm.

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2 P.M. The barometer is falling generally, principally in the W. and N. The wind continues to veer towards S. in Ireland, but temperature is little changed at present.

CORRECTIONS AND ADDITIONS TO PREVIOUS REPORTS.

Reports received too late for insertion in their proper places.

Date.	Station.	Bar.	Temp.		Wind.		Extreme.		Cloud.	Weather.	Rain.	Sea.
Dec.												
30.	Greencastle	30·28 r	33	32	W	1	1	WSW	4	m	–	1
--	C. Gris-Nez	30·07 r	20	20	E	5	5	E	9	bo	–	3
--	Rochefort	30·61 r	19	19	N	4	5	N	0	sb	0·04	3

Meteorological Office,

ROBERT H. SCOTT,

DIRECTOR.

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